केन्द्रीय विद्यालय संगठन तिनसुकिया संभाग

KENDRIYA VIDYALAYA SANGATHAN TINSUKIA REGION

पूर्व परिषदीय परीक्षा 2025-26 / PRE-BOARD EXAMINATION 2025-26

विषय/Subject :- Computer Science Subject Code(CBSE):-083

कक्षा/ Class:- /बारहवीं-XII

प्रश्न पत्र कोड /Q.P. Code:- QP12ACS02PB25

निर्धारित समय/Time Allowed:- 3 घंटे/3 Hours अधिकतम अंक/Maximum Marks :-70

GENERAL INSTRUCTIONS:-
Read the following instructions carefully and follow them:
(i) This question paper contains 37 questions.
(ii) All questions are compulsory. However, internal choices have been provided in some questions. Attempt only one of the choices in such questions.
(iii) This question paper contains five sections, Section A to E.
(iv) Section A have 21 questions (1 to 21) carrying 01 mark each.
(v) Section B has 07 questions (22 to 28) carrying 02 marks each.
(vi) Section C has 03 questions (29 to 31) carrying 03 marks each.
(vii) Section D has 04 questions (32 to 35) carrying 04 marks each.
(viii) Section E has 02 questions (36 to 37) carrying 05 marks each.
(ix) All programming questions are to be answered using Python Language only.
(x) In case of MCQs, text of the correct answer should also be written.

प्रश्न क्र./ Q. No.		अंक/ Marks
	SECTION A	
1.	State True or False The '==' operator checks for value equality	1
2.	Which of the following is generally used for performing tasks like creating the structure of the relations, deleting relation? (a) DML(Data Manipulation Language) (b) Query (c) Relational Schema (d) DDL(Date Detition Languag)	1
3.	What will be the output of this code? for i in range(3): print(i) (a) 0 1 2 (b) 1 2 3 (c) 0 1 2 3 (d) None of the above	1
4.	Write a query to display first_name and last_name of all employees who have their first_name starting with 'A'. (a) Select first_name from employees where first_name LIKE '%A'; (b) Select first_name from employees where first_name LIKE "'A'%"; (c) Select first_name from employees where first_name LIKE 'A%'; (d) Select first_name from employees where first_name LIKE '%A%';	1
5.	Which type of topology is best suited for large businesses which must carefully control and coordinate the operation of distributed branch outlets? (a) Ring (b) Local area (c) Hierarchical (d) Star	1

6.	Computers connected to a LAN (local area network) can (a) Run faster (b) Go on line (c) E-mail (d) Share information and/or resources	1
7.	What is the output of: try: print(1) finally: print(2) (a) 1 (b) 2 (c) 12 (d) Error	1
8.	What is the output of the following code? a=[11,12,13,14] print(a[1:3]) (a) [11,12] (b) [12,13] (c) [13,14] (d) Error	1
9.	Which command is used to add a new row? (a) insert (b) create (c) update (d) add	1
10.	A key which uniquely identify a row in a relation knows as (a) Primary (b) Candidate (c) Alternate (d) Foreign	1
11.	Which of the following is used to remove the column? (a) drop (b) delete (c) remove (d) None	1
12.	Write the value of c after executing the code. a,b=1,2 c=a>b or 0<=b<=4 and not(a+b!=10) (a) True (b) False (c) 0 (d) 1	1
13.	Which of the following statements is FALSE, for a python dictionary? (a) Dictionaries are mutable. Bur keys must be immutable types (b) When a dictionary name is used, its keys are accessed. (c) Items() method returns a list of tuples, each having key-value pair (d) (remove() method deietes all key-value pairs from a dictionary.	1
14.	In SQL. Select query,_____ keyword will prevent the entry of duplicate rows? (a) unique (b) distinct (c) primary key (d) NULL	1
15.	What will "abc".find("d") return? (a) 3 (b) -1 (c) Error (d) None	1
16.	What will random.randint(1,10) include? (a) 1 to 9 (b) 1 to 10 (c) 0 to 9 (d) 0 to 10	1
17.	Select the correct output of the code: a="foobar" a=a.partition("o") print(a) (a) [“fo”,””,”bar”] (b) [“f”,”oo”,”bar”] (c) [“f”,”o”,”bar”] (d) [“f”,”o”,”obar”]	1
18.	What does lst.insert(1, 'X') do? (a) Replaces element at index 1 with 'X' (b) Inserts 'X' at index 1, shifts others right (c) Appends 'X' at the end (d) Raises error	1
19.	Pawan wants to transfer files and photos from laptop to his mobile. He uses Bluetooth Technology to connect two devices. Which type of network will be formed to this case.	1

	(a) PAN (b) LAN (c) MAN (d) WAN	
	Q. 20 and Q.21 are ASSERTION (A) AND REASON (R) based questions. Mark the correct choice as (a) Bath & and R true and R is the correct explanation for A (b) Bath A and R true and R is not the correct explanation for A. (c) A is True but R is False. (d) A is False but R it is True.	1
20.	str=”Hello”+”welcome” ASSERTION (A) Value of 'stri will be "Hellowelcome" REASON (R) The + Operator adds the operands, if both are numbers & concatenates the if both operands are strings. str=”Hello”+”welcome”	1
21.	What will the following code print? def greet(): print("Hello") greet() (a) greet (b) hello (c) Error (d) None	1
	SECTION B	
22.	A. Explain the difference between explicit and implicit type conversion in Python with a suitable example. OR B. Explain the difference between break and continue statements in Python with a suitable example.	2
23.	What possible outputs(s) will be obtained when the following code is executed? What is the possible minimum and maximum value x can take? import random List = ['CTC', 'BBSR', 'KDML', 'PURI'] for y in range (4): x = random.randint (1,3) print (List[x], end = '#') Options are: a) KDML#PURI#BBSR#CTC# b) KDML#KDML#PURI#PURI# c) BBSR#KDML#BBSR#KDML# d) All of these 3 options are possible	2
24.	Write a suitable Python statement for each of the following tasks using built-in functions/methods only: a) To delete an element Mumbai:50 from Dictionary D. b) To display words in a string S in the form of a list **OR** a)To insert an element 100 at the Second position, in the list L 1 b) To sort the elements of list L1 in ascending order.	2
25.	A. Write a function remove_element() in Python that accepts a list L and a number n. If the number n exists in the list, it should be removed. If it does not exist, print a message saying "Element not found". OR B. Write a Python function add_contact() that accepts a dictionary phone_book, a name, and a phone number. The function should add the name and phone number to the dictionary. If the name already exists, print "Contact already exists" instead of updating it.	2
26.	Predict the output of the Python code given below : emp = {"Arv": (85000,90000),"Ria": (78000,88000),"Jay": (72000,80000),"Tia":	2

	(80000,70000)}
	selected = [ ]
	for name in emp:
	  salary = emp[name]
	  average = (salary[0] + salary[1]) / 2
	  if average > 80000:
	  selected.append(name)
	print(selected)	

27.	Give difference between DROP and DELETE command in SQL OR Name the aggregate functions which work only with numeric data, and those that work with any type of data.	2
28.	Differentiate between Star Topology and Bus Topology. Write two points of difference. OR (i) Expand the following terms: POP3 , URL (ii) Give one difference between XML and HTML.	2
	SECTION C	
29.	A) Write a Python function that displays all the words containing @gmail from a text file "Story.txt". OR B) Write a Python function that finds and displays all the words having 5 characters from a text file "Story.txt".	3
30.	You have a stack named Books that contains records of books. Each book record is represented as a list containing book_title, author_name, and publication_year. Write the following user-defined functions in Python to perform the specified operations on the stack Books: (I) push_book(Books, new_book): This function takes the stack BooksStack and a new book record new_book as arguments and pushes the new book record onto the stack. (II) pop_book(Books): This function pops the topmost book record from the stack and returns it. If the stack is already empty, the function should display "Underflow".	3

31.	A. Predict the output of the following Python code:
	s1="SQP-25"
	s2=""
	i=0
	while i<len(s1):
	  if s1[i]>='0' and s1[i]<='9':
	  Num=int(s1[i])
	  Num-=1
	  s2=s2+str(Num)
	  elif s1[i]>='A' and s1[i]<='Z':
	  s2=s2+s1[i+1]
	  else:
	  s2=s2+'^'
	  i+=1
	print(s2)
		3

OR

B. Predict the output of the following Python code:

```
wildlife_sanctuary = ["Kaziranga", "Ranthambhore", "Jim Corbett", "Sundarbans",
"Periyar", "Gir", "Bandipur"]
output = [ ]
for sanctuary in wildlife_sanctuary:
    if sanctuary[-1] in 'aeiou':
        output.append(sanctuary[0].upper())
print(output)
```

SECTION D

32. Consider the following table named Vehicle and state the query or state the output Table:- Vehicle — 4

VID	LicensePlate	VType	Owner	Cost	Contact	State
1	MH12AB1234	Car	Raj Kumar	65	9876543210	Maharastra
2	DL3CDE5678	Truck	Arjith Singh	125	8765432109	New Delhi
3	KA04FG9012	Motor cycle	Prem Sharma		9123456789	Karnataka
4	TN07GH3456	SUV	Shyad Usman	65	9987654321	Tamil Nadu
5	KA01AB1234	Car	Devid jhon	65	9876543210	Karnataka
6	TN02CD5678	Truck	Anjali Iyer	125	8765432109	Tamil Nadu
7	AP03EF9012	Motor cycle	Priya Reddy		9123456789	Andhra Pradesh

(A)

(i) To display number of different vehicle type from the table vehicle

(ii) To display number of records entered vehicle type wise whose minimum cost is above 80

(iii)To set the cost as 45 for those vehicles whose cost is not mentioned

(iv) To remove all motor cycle from vehicle

OR

(B)

(i) SELECT VTYPE,AVG(COST) FROM VEHICLE GROUP BY VTYPE;

(ii) SELECT OWNER ,VTYPE,CONTACT FROM VEHICLE WHERE OWNER LIKE "P%";

(iii)SELECT COUNT(*) FROM VEHICLE WHERE COST IS NULL;

(iv) SELECT MAX(COST) FROM VEHICLE;

33. A CSV file "Movie.csv" contains data of movie details. Each record of the file contains the following data: — 4

1.Movie id

2.Movie name

3.Genere

4.Language

5.Released date

For example, a sample record of the file may be:

["tt0050083",' '12 Angry Men is','Thriller'.'Hindi','12/04/1957']

Write the following functions to perform the specified operations on this file

(i) Read all the data from the file in the form of the list and display all those records for which language is in Hindi.

(ii) Count the number of records in the file.

34. Consider the following tables and answer the questions a and b: 4

Table: Garment

GCode	GName	Rate	Qty	CCode
G101	Saree	1250	100	C03
G102	Lehanga	2000	100	C02
G103	Plazzo	750	105	C02
G104	Suit	2000	200	C01
G105	Patiala	1850	105	C01

Table: Cloth

CCode	CName
C01	Polyester
C02	Cotton
C03	Silk
C04	CottonPolyester

Write SQL queries for the following:

i. Display unique quantities of garments.

ii. Display sum of quantities for each CCODE whose numbers of records are more than 1.

iii. Display GNAME, CNAME, RATE whose garments name starts with S.

iv. Display average rate of garment whose rate ranges from 1200 to 2000 (both values included)

35. A table named `EMPLOYEES` is created in a database named `COMPANY`. The table contains multiple columns whose details are as shown below: 4

- `EmpID` (Employee ID) - integer
- `EmpName` (Employee Name) - string
- `Salary` (Employee Salary) - float
- `Department` (Employee Department) - string

Note the following to establish connectivity between Python and MySQL:

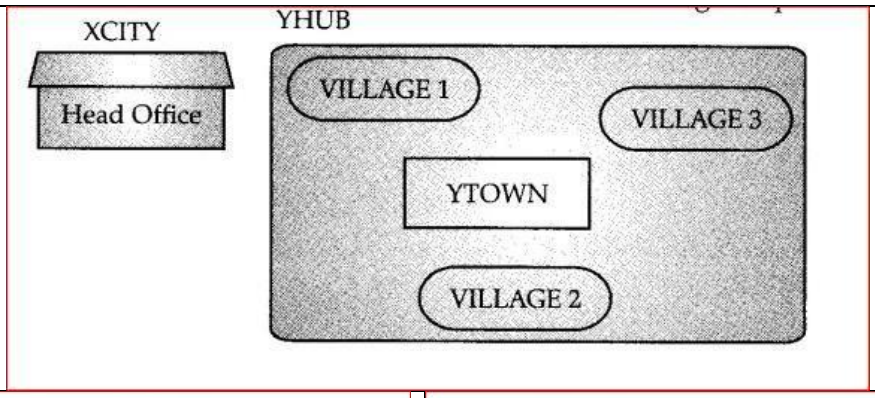
- Username: root
- Password: school123
- Host: localhost

Write the following Python function to perform the specified operation: ChecknDisplay():

To input details of an employee and store it in the table EMPLOYEES. The function should then retrieve and display all records display details of all such employees from the table EMPLOYEES whose salary is more than 50000.

SECTION E

36. Intelligent Hub India is a knowledge community aimed to uplift the standard of skills and knowledge in the society. It is planning to setup its training centers in multiple towns and villages of India with its head offices in the nearest cities. They have created a model of their network with a city, a town and 3 villages as given. As a network consultant, you have to suggest the best network related solution for their issues/problems raised in (a) to (e) keeping in mind the distance between various locations and given parameters. 5



Shortest distance between various locations:

VILLAGE 1 To YTOWN	2 KM
VILLAGE 2 To YTOWN	1.2 KM
VILLAGE 3 To YTOWN	3 KM
VILLAGE 1 To VILLAGE 2	3.5 KM
VILLAGE 1 To VILLAGE 3	4.5 KM
VILLAGE 2 To VILLAGE 3	3.5 KM
CITY Head office to YHUB	30 KM

Number of computers iinstalled at various locations are as follows:

YTOWN	100
VILLAGE 1	10
VILLAGE 2	15
VILLAGE 3	15
CITY OFFICE	5

a) Suggest the most appropriate location of the SERVER in the YHUB (out of the 4 locations), to getthe best and effective connectivity. Justify your answer.

b) Suggest the best wired medium and draw the cable layout (location to location) to efficientlyconnect various locations within the YHUB.

c) Which hardware device will you suggest to connect all the computers within each location ofYHUB?

d) Which server/protocol will be most helpful to conduct live interaction of Experts from Head officeand people at YHUB locations?

Suggest a device/software and its placement that would provide data security for the entire networkof the YHUB.

37. Shivam Sen is a programmer in school , He needs to manage the records of various students. For this he wants the following information of each student to be stored:
i. Mention any two difference between binary and csv files ?
ii. AddStudents() is a function to input the data of a students and append it in the file STUDENT.DAT containing student information – roll number, name and marks (out of 100) of each student.
iii. GetStudents() is a function Write a function to read the data from the file to display the name and percentage of those students who have a percentage greater than 75. In case there is no student having percentage > 75, the function displays an appropriate message. 5

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पूर्वपरिषदीयपरीक्षा2025-26 / PRE-BOARD EXAMINATION 2025-26

विषय/Subject :- INFORMATICS PRACTICES विषयकोड (सीबीएसई)/Subject Code(CBSE):-065

कक्षा/ Class:-बारहवीं-XII

प्रश्नपत्रकोड /Q.P. Code:- QP12AIP02PB25

निर्धारितसमय/Time Allowed**:-** 3 घंटे

अधिकतमअंक/Maximum Marks :-70

General Instructions:

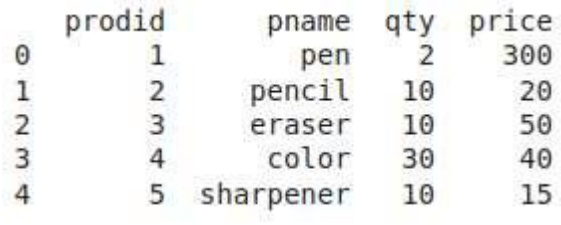
- Please check this question paper contains 37 questions.
- All questions are compulsory. However, internal choices have been provided in some questions. Attempt only one of the choices in such questions
- The paper is divided into 5 Sections-A,B,C,D and E.
- Section A consists of 21 questions(1 to 21).Each question carries1Mark.
- Section B consists of 7 questions(22 to 28).Each question carries 2 Marks.
- Section C consists of 4 questions(29to32). Each question carries 3 Marks.
- Section D consists of 2 case study type questions (33 to 34). Each question carries 4 Marks.
- Section E consists of 3 questions(35 to 37). Each question carries 5 Marks.
- All programming questions are to be answered using Python Language only.
- In case of MCQ, text of the correct answer should also be written.

QNo.	Section-A(21x1=21Marks)	Marks
1	Missing data in Pandas object is represented through: (A) Null (B) None (C) NaN (D) Missing	1
2	Write the output of the following SQL Query: *SELECT INSTR('Sangathan', 'San');* (A) 0 (B) 1 (C) error (D) cannot be predicted	1
3	_____help in data protection through copyrights, patents and trademarks: (A) Data Privacy Right (B) Right to Innovation (C) Intellectual Property Rights (IPR) (D) Right to Data Protection	1
4	What will be the output of **pd.DataFrame([1, 2, 3])**? A) A DataFrame with one column and three rows B) A DataFrame with three columns and one row C) An error D) A Series	1
5	Inwhichofthenetworktopologiesdoalldevicesconnecttoacentralpoint,such as a switch or hub? (A)Star (B)Bus (C)Tree (D)Mesh	1

6	Which of the following is the correct output of the following SQL command? ***SELECT ROUND(1876.45693,3);*** (A) 1876.457 (B) 1876.456 (C) 1900 (D) 1900.45693	1
7	Online posting of rumours, giving threats online, posting the victim's personal information, comments aimed to publicly ridicule a victim is termed as _____. (A) Cyber bullying (B) Cyber crime (C) Cyber insult (D) All of the above.	1
8	What will be the output? import pandas as pd data = {'Name': ['John', 'Alice'], 'Age': [25, 30]} df = pd.DataFrame(data) print(df['Name'][1]) A) John B) Alice C) 25 D) Error	1
9	State whether the following statement is True or False: In SQL, the **HAVING** clause is used to apply filter on groups formed by the **GROUP BY** clause.	1
10	The device used to connect two networks using different protocols is: (A) Router (B) Repeater (C) Gateway (D) Hub	1
11	Which of the following is the correct output of the following SQL command? ***SELECT UCASE(SUBSTR("Project Management",9,6));*** (A) Manag (B) Manage (C) MANAGE (D) manage	1
12	In a Pandas DataFrame, if the **tail()** function is used without specifying the optional argument indicating the number of rows to display, what is the default number of rows displayed, considering the DataFrame has 10 entries? (A) 0 (B) 1 (C) 4 (D) 5	1
13	Contract or agreement between user and creator permitting to use creation with limitations is: (A) Copyright (B) License (C) Mutual Deed (D) None of these	1
14	If the substring is not present in a string, the INSTR() returns: (A) -1 (B) 1 (C) NULL (D) 0	1
15	What will be the output of the following code? import pandas as pd s = pd.Series([10, 20, 30], index=['a', 'b', 'c']) print(s['b']) A.10 B. 20 C. b D. Error	1
16	A _____ is a document commonly written and is accessible through the internet or other network using a browser? (A) accounts (B) data (C) web page (D) search	1

17	Which aggregate function returns the number of rows in a result set, including rows with NULL values? (A) COUNT(column) (B) COUNT(*) (C) SUM(column) (D) AVG(column)	1
18	Which attribute checks the existence of NaN value in a Series? A. len( ) B. count( ) C. values( ) D. hasnans( )	1
19	What does RIGHT('EXAMINATION', 6) return? (A) ATION (B) TION (C) NATION (D) INATION	1
	Q-20 and Q-21 are Assertion (A) and Reason (R) Type questions. Choose the correct option as:	

	(A) **Both Assertion (A) and Reason (R) aretrue, and Reason (R) is thecorrect explanation of Assertion (A)** (B) **BothAssertion(A)andReason(R)aretrue,butReason(R)isnotthe correct explanation of Assertion (A)** (C) **Assertion(A)isTrue,butReason(R)is False** (D) **Assertion(A)isFalse,butReason(R)isTrue**	
20	**Assertion (A)**: DataFrame has both a row and column index. **Reason(R)**: A DataFrame is a two-dimensional labeled data structure like a table of MySQL	1
21	**Assertion(A) :** The COUNT(column_name) and COUNT(*) functions can produce different results when used with GROUP BY. **Reason(R)** : COUNT(column_name) counts only non-NULL values in the specified column, while COUNT(*) counts all rows regardless of NULL values.	1
QNo.	**Section-B(7x2=14Marks)**	**Marks**
22	(A) What is a Series in Python Pandas? Also, give a suitable example to support your answer. **OR** (B) Give the output of the following code: import pandas as pd df=pd.DataFrame(['Apple','Banana','Orange','Grapes','Guava']) print(df[2:4:2])	2
23	What is identity theft? Explain with example.	2

24	What will be the output of the following code: *import pandas as pd* *df = pd.Series([0, 1, 2, 3, 4, 5, 6, 7, 8, 9], index = ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j'])* *print(df[0:-2:-2])*		2
25	(A)	Explain the terms Web Page and Home Page. OR	2
	(B)	Compare and contrast – STAR and BUS topologies.	
26	Consider the given SQL string: "Informatics Practices Exam" Write suitable SQL queries for the following: I. Returns the position of the first occurrence of the substring "mat" in the given string. II. To extract last six characters from the string		2
27	List any two benefits of e-waste management.		2
28	(A)	Consider the following code and answer the questions that follow import pandas as pd data = { 2021:{'A':10, 'B':12, 'C':10, 'D':14}, 2022:{'A':8, 'B':9, 'C':11, 'D':12}, 2023:{'A':10, 'B':10, 'C':11, 'D':12}, 2024:{'A':6, 'B':12, 'C':14, 'D':16} } profit = pd.DataFrame(data) i)print(profit.head(2)) ii) print(profit.loc['A']) **OR**	2
	(B)	Consider the following dataframe, product, answer the questions that Follow  i) Display the names of products. ii) Rename the column 'price' as 'newprice'	
QNo	**Section-C(4x3=12Marks)**		**Marks**
29	Sumit got good marks in all subjects. His father gifted him a laptop. He would like to make Sumit aware of health hazards associated with inappropriate and excessive use of laptop. Help his father to list the points which he should discuss with Sumit.		3

	prodid	pname	qty	price
0	1	pen	2	300
1	2	pencil	10	20
2	3	eraser	10	50
3	4	color	30	40
4	5	sharpener	10	15

30	(A)	Consider the given DataFrame ' Stock' Name Price 0 BSE 220 1 NCDEX 115 2 MCX 145 3 INX 285 Write suitable Python statements for the following: i. Add a column called Special_Price with the following data: [250,150,185,320]. ii. Add a new Stock of Name 'NSE' having Price as 295 iii. Remove the column Price. **OR**	3
	(B)	Write a Python Program to create a Pandas Series as shown below using a dictionary. Note that the left column indicates the indices and the right column displays the data. **Karnataka** Bengaluru **Bihar** Patna **Jharkhand** Ranchi	
31		Discuss the significance of Aggregate functions in Mysql in detail and explain with example.	3

32 (A)

Consider the table 'Graduate' given below and write SQL commands: 3

RollNo	Name	Stipend	Subject	Percent	DIV
101	Karan	4000	Physics	78.5	III
102	Diwakar	4500	Chemistry	88.5	II
103	Rekha	3000	Accounts	92.5	I
104	John	5000	Economics	95	I
105	Vikas	4000	Biology	76.5	III

a. To display the roll number, name and subject in increasing order of percent.

b. To display the roll number, name, stipend and division of those student who are having 'a' in their name.

c. To display the first 3 characters of name for all the students.

OR

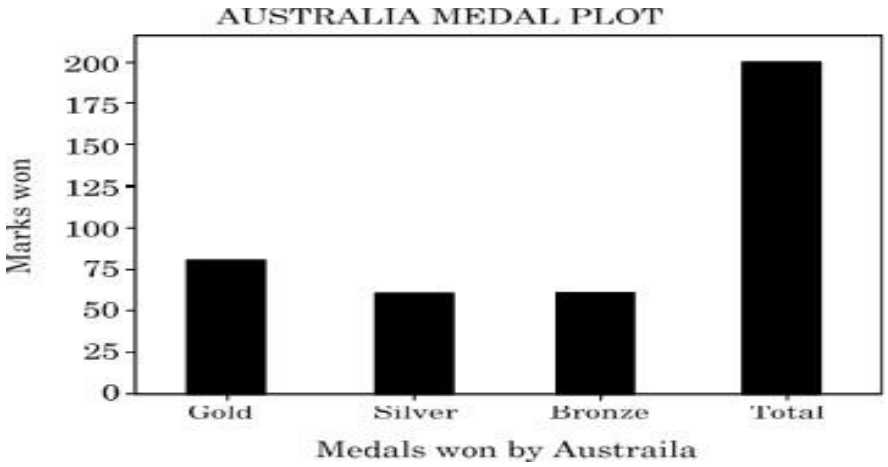
(B)

a. SELECT Name, LENGTH(Name) FROM Graduate WHERE Percent < 85;

b. SELECT LEFT(Name,5) FROM Graduate;

c. SELECT MAX(Percent), MIN(Percent) FROM Graduate;

QNo.	Section-D(2 x4=8 Marks)	Marks

33	Write code to draw the following bar graph representing the total number of medals won by Australia. Also write the command to give title, label (x and y axis),show and save it.
	 
	
	import _____.pyplot as plt #line1
	medal=['Gold','Silver','Bronze','Total']
	marks=[75,60,60,200]
	plt.bar(medal,marks)
	plt.title("_____") #line2
	plt.xlabel("Medals won by Australia")
	plt._____ ("Marks won") #line3
	plt.plot()
	plt._____("Australia.png") #line4
	
	i) Write the suitable library to be imported.
	ii) Write the suitable Title for the graph.
	iii) Write the function used for labeling y axis.
	iv) Write the function used to save the graph.
		4

34 (A) Write suitable SQL queries for the following: — 4

i. Display 4 characters from third position of string "Computer Lab".
ii. Round off the value 2.372 to one decimal place.
iii. Display today's day name
iv. Remove the extra spaces from both side of the string " Python is Dangerous ".

OR

(B) Sanya has created following table named exam:

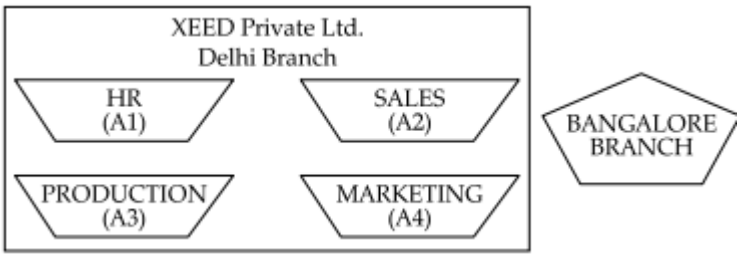
RegNo	Name	Subject	Marks
1	Dhanya	Computer Science	98
2	Sanjay	IP	100
3	Vimala	CS	85
4	Sneha	IP	75
5	Akshay	IP	100

Help her in writing SQL queries to perform the following task:

i. Insert a new record in the table having following values: [6,'Arnav','CS',76]
ii. To change the value "**IP**" to "**Informatics Practices**" in subject column.
iii. To remove the records of those students whose marks are less than 50
iv. To add a new column **Grade** of suitable datatype.

QNo.	**Section-E(3x 5 =15 Marks)**	**Marks**

35 XEED Private Ltd., Delhi is a company that deals with educational toys. They have different divisions HR (A1), Sales (A2), Production (A3) and Marketing (A4). The layout of the Delhi branch is: — 5



The company also has a branch in Bangalore. The management wants to connect all the divisions as well as all the computers of each division (A1, A2, A3, A4). Number of computers in each of the wing:

Wings	No of Computers
A1	50
A2	40
A3	110
A4	60

Distance between the wings are as follows:

A1 to A2	40 m
A1 to A3	25 m
A1 to A4	170 m
A2 to A3	30 m
A2 to A4	25 m
A3 to A4	20 m
Delhi Head Office to Bangalore Office	2154 km

Based on the above specifications, answer the following questions:

(i) Suggest the topology and draw the most suitable cable layout for connecting all the divisions of Delhi branch.

(ii) Suggest the kind of network required (out of LAN, MAN, WAN) for connecting Production (A3) with the Bangalore branch.

(iii) Which device can be used to connect the network of Delhi Branch to the Internet? This device should be able to receive data, analyze it and then transmit it to the network.

(iv) Suggest the placement of switch/hub with justification.

(v) Many employees were finding it difficult to cope up with work pressure and hence were showing stress related symptoms. In order to improve the mental health of its employees, HR planned to conduct an online session with a mental health expert from Mumbai. Out of the options given below, suggest the protocol that will help to send the voice signals over internet to conduct the session successfully. (a) FTP (b) SMTP (c) VOIP (d) POP

36 Wizbiz Corporation is recording the quarterly sales data of its three products through different departments.in a dataframe named “Sales”:

	Qtr1	Qtr2	Qtr3	Qtr4
Product1	3500	4200	4800	5100
Product2	2800	3100	3600	3900
Product3	1500	1800	2100	2400

i) Write a suitable python statement to display details of Product1 and Product2 only.

ii) Write a suitable python statement to rename the column Qtr4 as “Annual”.

iii) Write suitable python statement to export this data into a csv file in a file “SalesReport.csv”.

iv) Write Python statement to display total sales done in 'Qtr1' and 'Qtr2' for each product.

(1+1+1+2)

37	(A)	Write suitable SQL query for the following: a) Display the position of "VIDYALAYA" in the string "KENDRIYA VIDYALAYA SANGATHAN" b) Extract 3 characters from position 4 from the string" ELECTRICITY DEPARTMENT " after removing leading and trailing spaces from the string. c) Display the square of the length of the number "153.76". d) Display the remainder of day of our International yoga day (21 june 2015) divided by it's month. e) Display today's day name.	5
		OR	
	(B)	Explain the following SQL functions using suitable examples a) MOD() b) MONTHNAME() c) DAYNAME() d) ROUND() e) INSTR()	

KENDRIYA VIDYALAYA SANGATHAN TINSUKIA REGION
PRE-BOARD EXAMINATION 2025-26
Subject: - BIOLOGY Subject Code (CBSE): -044
Class: --XII

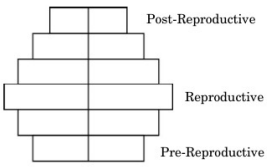
Q.P. Code: -QP12BIO02PB25 Maximum Marks: -70
Time Allowed: - 3 hours

GENERAL INSTRUCTIONS:
Read the following instructions carefully and follow them:

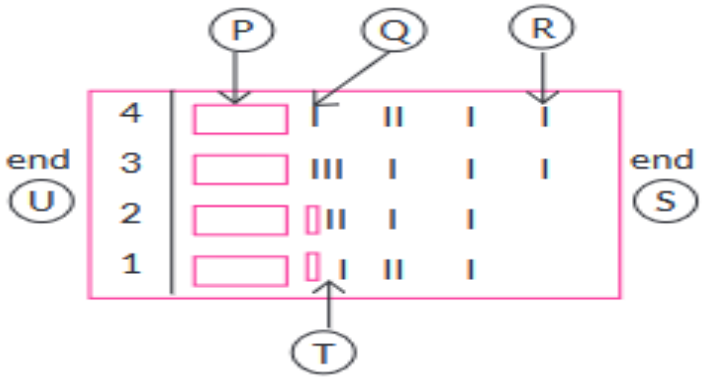
(i) All questions are compulsory.
(ii) The question paper has five sections and 33 questions.
(iii) Section–A has 16 questions of 1 mark each; Section–B has 5 questions of 2 marks each; Section– C has 7 questions of 3 marks each; Section– D has 2 case-based questions of 4 marks each; and Section–E has 3 questions of 5 marks each.
(iv) There is no overall choice. Answer all 33 questions. However, internal choices have been provided in some questions. A student has to attempt only one of the alternatives in such questions.
(v) Wherever necessary, neat and properly labeled diagrams should be drawn.

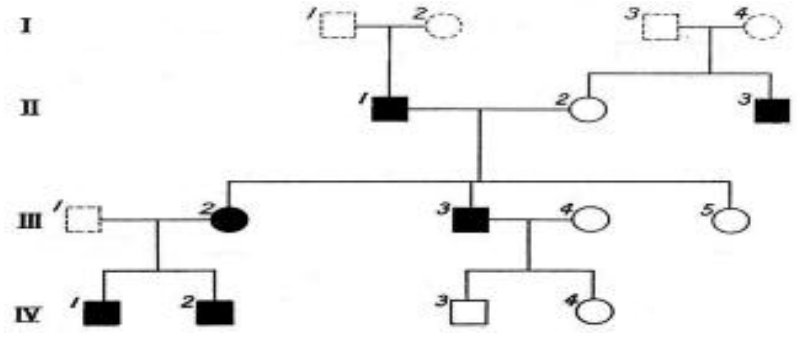
Q. NO.	**Section – A** Q. No. 1 to 12 are multiple choice questions. Only one of the choices is correct. Select and write the correct choice as well as the answer to these questions.	**MARKS**
1	If a natural population with 200 individuals is in Hardy-Weinberg equilibrium for a gene with two alleles A and a, with the gene frequency of allele A of 0·8, the genotype frequency of Aa will be: (A) 0·8 (B) 0·16 (C) 0·32 (D) 0·64	1
2	Select the incorrect match from the following: Human Karyotype Characters (A) 45 + XX Broad palm with characteristic palm crease (B) 44 + XXY Overall feminine development (C) 44 + XO Sterile females as ovaries are rudimentary (D) 44 + XY Normal male	1
3	In humans, the secondary oocyte completes meiotic division when: (A) it gets implanted in the uterine endometrium. (B) it is released from the matured Graafian follicle. (C) it is penetrated by the sperm cell. (D) acrosomal enzymes break down the zona pellucida.	1
4	Which one of the following options is **not** a characteristic of acquired immunity? (A) It is pathogen specific. (B) It is not characterised by memory.	1

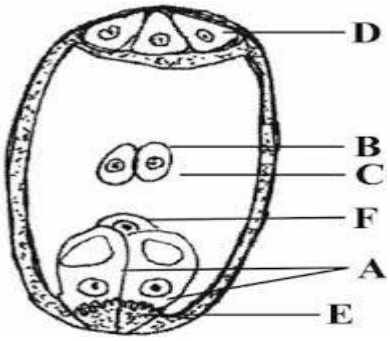
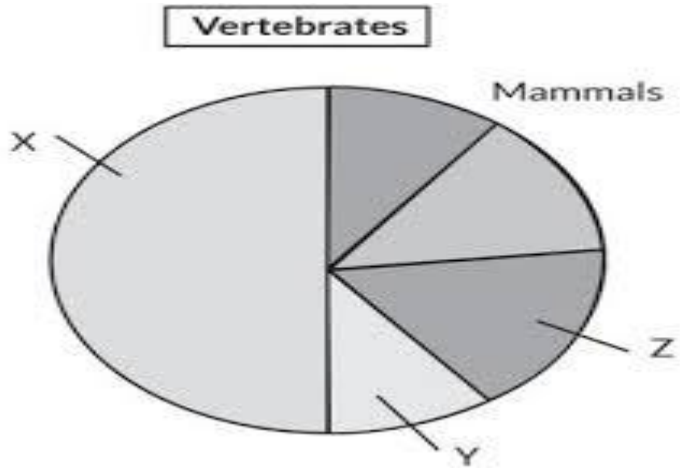
	(C) On first contact it produces a primary response. (D) Subsequent encounter elicits a secondary response.	
5	A DNA fragment has 2500 nucleotides, out of which 240 are Guanine. How many bases having double hydrogen bonds between them does this DNA fragment possess? (A) 480 (B) 720 (C) 1010 (D) 2020	1
6	In a fertilized ovule of an angiosperm, the cells in which n, 2n and 3n conditions respectively occur are: (A) antipodal, zygote and endosperm (B) zygote, nucellus and endosperm (C) endosperm, nucellus and zygote (D) antipodals, synergids and integuments	1
7	Bottled fruit juices are clearer as compared to those made at home, as they are clarified by the use of: (A) Lipases and pectinases (B) Pectinases and proteases (C) Proteases and cellulases (D) Nucleases and lipases	1
8	The periodic abstinence by a couple for family planning should be from: (A) Day 5 to 10 of menstrual cycle (B) Day 13 to 15 of menstrual cycle (C) Day 10 to 17 of menstrual cycle (D) Day 16 to 20 of menstrual cycle	1
9	Human settlement often leads to habitat loss which leads to fragmentation, forming smaller patches of habitats. Select the statements that describe how a small patch differs from a large patch of the same habitat. (i) Invasive species will never be seen here. (ii) Population of large animals decreases. (iii) Biodiversity decreases. (iv) Competition from surrounding habitats increases. (A) (ii), (iii) and (iv) only (B) (ii) and (iv) only (C) (i) and (iii) only (D) (i), (ii) and (iii) only	1
10	The status of the human population reflected in the human age pyramid given below is:	1

<table>
<tr><td></td><td> 

(A) Declining population
(B) Stable population
(C) Expanding population
(D) Extinct population</td><td></td></tr>
<tr><td>11</td><td>Eco R1 cuts the DNA between bases G and A only when the sequence of GAATTC is present. The number of nucleotides present in the resultant sticky ends that will be formed in each of the two strands of DNA after this enzyme cuts the DNA will be:
<table>
<tr><td></td><td>Vector DNA</td><td>Foreign DNA</td></tr>
<tr><td>A,</td><td>1 & 5</td><td>5 & 1</td></tr>
<tr><td>B.</td><td>2 & 4</td><td>4 & 2</td></tr>
<tr><td>C.</td><td>2 & 5</td><td>5 & 2</td></tr>
<tr><td>D.</td><td>3 & 4</td><td>4 & 3</td></tr>
</table></td><td>1</td></tr>
<tr><td>12</td><td>Interaction between clown fish living among the stinging tentacles of sea anemone is an example of:
(A) Amensalism
(B) Parasitism
(C) Mutualism
(D) Commensalism</td><td>1</td></tr>
<tr><td colspan="3">Question Nos. 13 to 16 consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:
(A) Both (A) and (R) are true and (R) is the correct explanation of (A).
(B) Both (A) and (R) are true and (R) is not the correct explanation of (A).
(C) (A) is true, but (R) is false.
(D) (A) is false, but (R) is true.</td></tr>
<tr><td>13</td><td>Assertion: A person infected with malaria suffers from chill and high fever, recurring every three or four days.
Reason: The parasite attacks the RBC resulting in their rupture and release of haemozoin.</td><td>1</td></tr>
<tr><td>14</td><td>Assertion: A given fig species can be pollinated only by its partner’ wasp.
Reason: The wasp pollinates the fig inflorescence while searching for suitable egg laying sites.</td><td>1</td></tr>
<tr><td>15</td><td>Assertion: DNA fragments can be isolated by Gel electrophoresis on the basis of their size.
Reason: The larger the fragment size, the faster it moves.</td><td>1</td></tr>
</table>

16	**Assertion:** In a field experiment, when all the starfish were removed from an enclosed intertidal area, more than 10 species of invertebrates became extinct within a year. **Reason:** This happened due to intraspecific competition.	1
	SECTION-B	
17	***Attempt either option A or B.*** A) a) Given below is the stepwise schematic representation of the process of electrophoresis. Identify the 'alphabets' representing (i) Anode end (ii) smallest/lightest DNA strand in the matrix (iii) Agarose gel (iv) Wells  OR B) Write the role of ori and 'restriction' site in a cloning vector pBR322.	2
18	Give reasons for the following: (i) Why can a woman generally not conceive a child after 50 years of age? (ii) Polar bodies are formed during oogenesis and not during spermatogenesis.	2
19	Consider the given data of a hypothetical small portion of mRNA that codes for a functional polypeptide chain and answer the questions that follow: **mRNA 5'- UCAUUACCACGAUUCUUUAAAAGA- 3'** (a) How many amino acids will be formed from the given codons, if substitution of U by C takes place at the 5th codon? Explain your answer. (b) Write the number of amino acids that would be in the polypeptide synthesised by a similar mRNA as above, where in the fourth where in the fourth codon a mutation changes it into a stop codon.	2
20	***Attempt either option A or B.*** A) Different varieties of cheese are known by their characteristic texture, flavour and taste, the specificity coming from the microbes used. Support this statement with the help of two suitable examples. OR B) Mention the chemical nature of an antibody and name the type of cells they are produced by. Write the differences between active and passive immune responses on the basis of antibodies.	2

21	***Attempt either option A or B.*** A. Correctly depict (also indicate the trophic level) and describe the ecological pyramid of biomass in sea with 40 standing crops of phytoplankton supporting 90 standing crops of zooplankton which further supports 120 small fishes. OR B.  . I. How are nutrients recycled back into the ecosystem as shown in the figure? II. The figure shows that some nutrients are lost by leaching. Why is this process ecologically significant?	2
	SECTION-C	
22	The first clinical gene therapy was given in 1990 to a 4-year-old girl with ADA deficiency. (a) Mention the cause of this disorder. (b) List the possible treatments available for this disorder. (c) How can this disorder be cured permanently?	3
23	Study the pedigree chart given below and answer the questions that follow: Symbols used in the given pedigree chart are as follows:  	3

	(a) On the basis of the inheritance pattern exhibited in this pedigree chart, What conclusion can you draw about the pattern of inheritance? (b) If the female is homozygous for the affected trait in this pedigree chart, ther what percentage of her sons will be affected? (c) Give the genotype of offspring 2 and 3 in III generation.	
24	Identify the following part mentioned below and write their function.  (i)Filiform apparatus (ii)Synergids (iii) Central cell	3
25	Enumerate the events in the ovary of a human female during: (i) Follicular phase (ii) Luteal phase of menstrual cycle.	3
26	(i) Name the group of cells the HIV enters after getting into the human body. (ii) What happens in these cells and what are these cells subsequently referred to as? (iii) Name the next group of cells the HIV attacks from here.	3
27	(a) Write the difference between proinsulin and mature insulin. (b) How did American company Eli Lilly produce human insulin using rDNA technique?	3
28	Given below is a 'pie chart' representing the global biodiversity: proportionate number of species of major taxa.  (i) Identify (X) and (Y) in the given 'pie chart'. (ii) "Extinction of species across taxa are not random." Which group amongst the vertebrates is more vulnerable to extinction?	3

	(iii) Give one example each of recent extinctions of species in Russia, Mauritius and Australia.	
	SECTION-D (CASE BASED QUESTIONS)	
29	In England, the dark form of peppered moth (Biston betularia) increased during the Industrial Revolution due to soot-covered trees. With air pollution control measures, light-colored moths have again become more common. Answer the following: (a) Which evolutionary mechanism is illustrated here? ***Attempt either subpart (b) or (c).*** (b) Why did the dark form have a selective advantage earlier, and why did the light form regain it later? **OR** (c) What does this example prove about natural selection — is it directional, stabilizing or disruptive? (d) Name another environmental factor in present times that can similarly alter gene frequencies.	4
30	Wastewater from homes and industries is treated in sewage treatment plants (STPs). It involves primary treatment, followed by secondary treatment with microbial action, and finally disinfection. Answer the following: (a) What is the role of microbes in secondary treatment? ***Attempt either subpart (b) or (c).*** (b) Explain the significance of activated sludge. **OR** (c) Name two groups of organisms which constitute 'flocs'. Write their influence on the level on BOD during biological treatment of sewage. (d) Why is this treatment essential?	4
	SECTION-E	
31	a) Define double fertilization. (1 mark) b) What is the product of triple fusion? (1 mark) c) Which part of the ovule develops into the seed coat? (1 mark) d)How does double fertilization ensure proper nourishment of the developing embryo? (2 marks) **OR** a) Distinguish between spermatogonia and spermatids based on ploidy and function. (1.5 marks) b) Differentiate spermatogenesis from spermiogenesis. (1.5 marks)	5

	c) At what stage of the menstrual cycle does implantation occur? (1 mark) d) What is the ploidy of spermatids? (1 mark)	
32	(i) Describe the structure and function of a t-RNA molecule. Why is it referred to as an adapter molecule? (ii)Explain the process of splicing of hn-RNA in a eukaryotic cell with suitable diagram **OR** The lac operon in E. coli is a classic example of gene regulation. a) What will happen to the expression of lac operon if lactose is absent but glucose is present? (1.5 marks) b) Why is lac operon called an inducible operon? (1.5 marks) c) A scientist wants to design bacteria that can digest a new sugar other than lactose. Which component of the operon mechanism (structural genes, promoter, operator, or repressor) would need modification? Justify. (2 marks)	5
33	(i)How has biotechnology helped in producing the Meloidogyne incognita resistant tobacco plant? (ii)Why does this nematode die on eating such a GM plant? **OR** Biotechnology uses advanced techniques like PCR and bioreactors for large-scale production. Answer the following: a) PCR can make billions of copies of a gene in a short time. If a scientist accidentally omits the DNA polymerase enzyme in the reaction, what would happen? Explain. (1 mark) b) In a bioreactor, why is the supply of sterile air and constant agitation necessary? Relate it to cell growth. (1 mark) c) Out of the steps of biotechnology (gene identification, insertion into vector, maintenance in host, downstream processing), which step would be most affected if the host organism loses its plasmid? Why? (1 marks) d) If PCR gives you millions of copies of a gene, why can't we directly use them for producing insulin in patients? What extra step is required? (2marks)	5

KENDRIYA VIDYALAYA TINSUKIA REGION
PRE-BOARD-2025-26
CHEMISTRY THEORY (043)
QP12CHEM02PB25
CLASS XII

Time:3hrs **Max Marks: 70**

General Instructions:

Read the following instructions carefully and follow them:

(i)This question paper contains 33questions. All questions are compulsory.

(ii)This question paper is divided into five sections -Section A, B, C, D and E

(iii)Section-A: Question numbers 1 to 16 are multiple choice type questions. Each question carries 1mark.

(iv) Section-B: Question numbers 17 to 21 are very short answer type questions. Each question carries 2 marks.

(v) Section-C: Question numbers 22 to 28 are short answer questions. Each question carries 3 marks.

(vi) Section-D: Question numbers 29 and 30 are case-based questions. Each question carries 4 marks.

(vii) Section-E: Question numbers 31 to 33 are long answer type questions. Each question carries 5 marks.

(viii)There is no overall choice given in the question paper. However, an internal choice has been provided in few questions in all the Sections except section A.

(ix)Use of calculator is not allowed.

SECTION-A [16×1=16]

Question No. 1 to 12 are multiple choice type questions carrying 1 mark each.		
Q. 1	The unit of molar conductivity is: A. S cm^2 mol^{-1} B. S cm^{-2} mol^{-1} C. S m^{-2} mol^{-1} D. Both (B) and (C)	1
Q.2	The overall order of a reaction which has the rate expression Rate = k $[A]^{1/2}$ $[B]^{3/2}$ is A. 1 B. 2 C. 3 D. 4	1
Q.3	For a first order reaction, half-life period is A. constant B. increased with the increase of initial concentration of the reactant C. decreased with the increase of initial concentration of the reactant D. either increased or decreased with the increase of initial concentration of the reactant	1
Q.4	Which of the following statements is incorrect? A. A catalyst provides an alternate pathway or reaction mechanism by reducing the activation energy. B. A catalyst does not alter gives energy . C. A catalyst does not change the equilibrium constant D. None of the above.	1
Q.5	Which of the following is not a transition metal? A. Zn	1

	B. Cd C. Hg D. All of the above	
Q.6	Which of the following ions is diamagnetic? A. Co^{2+} B. Ni^{2+} C. Cu^{2+} D. Zn^{2+}	1
Q.7	Which of the following compounds can show coordination isomerism? A. $[Co(NH_3)_6][Cr(CN)_6]$ B. $[Co(NH_3)_5(SO_4)]Br$ C. $[Cr(H_2O)_5Cl]Cl_2.H_2O$ D. Cis-$[CrCl_2(ox)_2]^{3-}$	1
Q.8	Which of the following reagents is used in Finkelstain reaction? A. NaCl B. NaBr C. NaI D. NaOH	1
Q.9	The product of the Reimer-Tiemann reaction of phenol is: A. Salicylic acid B. Salicylaldehyde C. Catechol D. Hydroquinone	1
Q.10	Which of the following compounds gives a positive Lucas test on heating only? A. Ethanol B. 2-Propanol C. Acetone D. Propan-2-ol	1
Q. 11	Amongst the following, which one is the strongest base in aqueous medium ? A. CH_3NH_2 B. $NCCH_2NH_2$ C. $(CH_3)_2NH$ D. $C_6H_5NHCH_3$	1
Q. 12	Which of the following acids is a vitamin? A. Aspartic acid B. Ascorbic acid C. Adipic acid D. Saccharic acid	1
Fir question No. 13 to 16 , two statements are given-- one labelled as Assertion(A) and the other labelled as Reason (R) . Select the correct answer to these questions from the codes (A), (B), (C) and (D) as given below. (A) Both Assertion (A) and Reason (R) are true, and Reason (R) is the correct explanation of Assertion (A). (B) Both Assertion (A) and Reason (R) are true, but Reason is not the correct explanation of Assertion (A). (C) Assertion (A) is true, Reason (R) is false. (D) Assertion (A) is false, but Reason (R) is true.		
Q. 13	**Assertion (A):** Chelating ligands form more stable complexes than monodentate ligands. **Reason (R):** Chelating complexs have a ring structure which reduces the chance of dissociation.	1
Q. 14	**Assertion (A):** The carbon oxygen bond in phenols is slightly stronger than that in methanol. **Reason(R):** There is only single bond character between C-O in phenol .	1

Q. 15	**Assertion (A):** Aniline easily undergoes Friedel–Crafts reaction. **Reason (R):** The Lewis acid catalyst ($AlCl_3$) forms a complex with the amino group of aniline	1
Q. 16	**Assertion (A):** Monosaccharides are reducing sugars. **Reason (R):** They contain a free aldehyde or ketone group.	1

SECTION-B [5×2=10]

Q. 17	A solution is prepared by dissolving **1 g of non-volatile solute** in 100 g water. Vapour pressure of pure water at 298 K is 23.8 mm Hg. Vapour pressure of solution is 23.72 mm Hg. Calculate **molar mass** of solute. OR Give reason (I) Measurement of osmotic pressure method is preferred for the determination of molar masses of macromolecules such as protein and polymers. (II) Aquatic animals feel more comfortable in winter rather than in summer.	2 2
Q. 18.	How much electricity is required in coulomb for the oxidation of **(i)** 1 mole of H_2O to O_2 **(ii)** 1 mole of FeO to Fe_2O_3	2
Q.19	Give reason **(a)** Sc^{3+} is colourless in aqueous solution whereas Ti^{3+} is coloured. **(b)** Zinc is comparatively soft metal, iron and chromium are typically hard.	2
Q.20	Arrange the following in the increasing order of reactivity towards S_N2 reaction (i) 1-bromo-3-methylbutane , 2-bromo-2-methylbutane, 2-bromo-3methylbutane (ii) 1-bromobutane ,1-bromo-2,2-dimethylpropane, 1-bromo-2methylbutane, 1-bromo-3-methylbutane	2
Q.21	What do you mean by denaturation of proteins? Give one example.	2

SECTION-C [7×3=21]

Q.22	Represent the cell in which the following reaction takes place: $Mg(s) + 2Ag^+(0.0001M) \rightarrow Mg^{2+}(0.10M) + 2Ag$ Calculate its E_{cell} if $E^0_{cell} = 3.17$ V. OR (I) Write short note on Corrosion. (II) Write charging and discharging reaction of lead storage battery.	**1** **2**
Q.23	I. State Kohlrausch law of independent migration of ions. II. Λ^0m for NaCl , HCl and NaAc are 126.4, 425.9 and 91.0 S cm^2 mol^{-1} respectively. Calculate the Λ^0m for HAc.	**1** **2**
Q.24	I. Why is Cr^{2+} reducing and Mn^{3+} oxidising when both have d^4 configuration? II. Name a member of the lanthanoid series which is well known to exhibit +4 oxidation state.	**2** **1**
Q.25	I. What are ambident nucleophile. Give an example. II. $CH_3CH_2CH = CH_2 + HBr \rightarrow ?$ III. Which compound in the following pair will react faster in S_N2 reaction with –OH? CH_3-Br or CH_3I	**1** **1** **1**
Q.26	I. Write the equations involved in the following reactions: a. Reimer – Tiemann reaction b. Williamson's Ether Synthesis.	**1** **1** **1**

	II. Give the major products that are formed by heating $CH_3-O-CH_2-CH_3$ with HI.	
Q.27	Arrange the following compounds in increasing order of their boiling points. CH_3CHO, CH_3CH_2OH, CH_3OCH_3, $CH_3CH_2CH_3$ II. Describe the following: Cannizzaro reaction III. Which acid of the following pair shown here would you expect to be stronger? CH_3CO_2H or CH_2FCO_2H	**1** **1** **1**
Q.28	I. What are reducing sugars? II. What happens when D-glucose is treated with HNO_3? III. Define : Peptide linkage	**1** **1** **1**

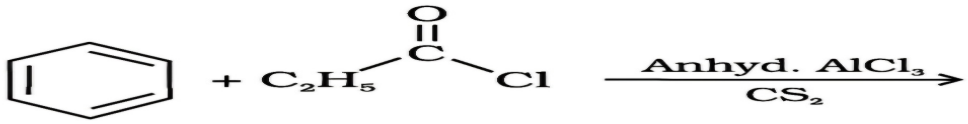
SECTION-D (2×4=8)

The following questions are case based questions. Read the passage carefully and answer the questions that follow.

Q.29	Chemical kinetics is the study of chemical reactions with respect to reaction rates, effect of various variables, rearrangement of atoms and formation of intermediates. A number of factors such as temperature, concentration of reactants, catalyst, affect the rate of a reaction. It has to be determined experimentally and cannot be predicted. Order of a reaction with respect to a reactant is the power of its concentration which appears in the rate law equation. The order of a reaction is the sum of all such powers of concentration of terms for different reactants. Rate constant and order of a reaction can be determined from rate law or its integrated rate equation. Molecularity is defined only for an elementary reaction. Temperature dependence of rate constants is described by Arrhenius equation. A. Mention the factors that affect the rate of a chemical reaction. B. Identify the reaction order from the following rate constant : $K = 2.3 \times 10^{-5}$ L mol^{-1} s^{-1} C. Calculate the half-life of a first order reaction from the rate constant given below: 200 s^{-1}	 1 1 2
Q.30	A student's chemistry project involves studying the applications of amines in pharmaceuticals. She learns that **aniline** is used in the preparation of paracetamol, **ethanamine** is used in the manufacture of painkillers, and **trimethylamine** is used in the synthesis of choline (important for brain function). She also studies the basicity of different amines in aqueous solution. The following data was observed for **pKb** values of some amines: Compound | pK_b value NH_3 (Ammonia) | 4.75 CH_3NH_2 (Methylamine) | 3.36 $(CH_3)_3N$ (Trimethylamine) | 4.19 $C_6H_5NH_2$ (Aniline) | 9.30 Answer the following questions: (I) Which compound is the strongest base among the given amines? (II) Arrange these base in increasing order of K_b values. (III) Write one chemical test to distinguish betwwen Aniline and methyl amine. OR (III) Why pKb value of aniline is higher than methyl amine?	 1 1 2

SECTION-E (3×5=15)

Q.31.A	**(I)** Are equimolar solution of sodium chloride and urea isotonic?	1

	(II) State the condition for reverse osmosis and one application of reverse osmosis. **(III)** Which will have higher osmotic pressure of a solution containing 3.42g of cane sugar or 3.42g of NaCl in 1 litre solution at 27^0C.(MM of cane sugar = 342g and MM of NaCl = 58.5g)	2 2
	OR	
Q.31.B	I. 18 g of glucose, $C_6H_{12}O_6$, is dissolved in 1 kg of water in a saucepan. At what temperature will water boil at 1.013 bar? Kb for water is 0.52 K kg mol^{-1}. (II) A compound undergoes complete tetramerization in a given organic solvent. What will be its van't Hoff factor? (III) Define minimum and maximum boiling azeotrope with example. .	2 1 2
32. A	I. Write the formula for the following coordination compound: Tetraammineaquachloridocobalt (III) chloride II. Formula — Moles of AgCl precipitated per mole of the compounds with excess $AgNO_3$ (i) $PdCl_2.4NH_3$ — 2 (ii) $NiCl_2.6H_2O$ — 2 On the basis of the above observations made with aqueous solutions, assign secondary valences to metals(Pd and Ni) in III. Indicate the types of stereoisomerism exhibited by the following complexes and draw the structures for these isomers:$[Pt(NH3)_2Cl_2]$	1 2 1+1
	OR	
32.B.	I. Write the IUPAC names of the following coordination compound: $[CoCl_2(en)_2]Cl$ II. $[NiCl_4]^{2-}$ is paramagnetic while $[Ni(CO)_4]$ is diamagnetic though in both cases Ni has same coordination number. Why? III. Explain why $[Ti(H_2O)_6]^{3+}$ shows colour property on the basis of crystal field theory.	1 2 2
33.A	I. Write the structures of products of the following reactions: a.  1  1 b. II. Arrange the following compounds in increasing order of their boiling points. CH_3CHO, CH_3CH_2OH, CH_3OCH_3, $CH_3CH_2CH_3$ III. Give simple chemical test to distinguish between the following pair of compounds: (a) Propanal and Propanone (b) Acetaldehyde and benzaldehyde	1 2
	OR	
33.B	I. Arrange the following compounds in increasing order of their acid strength: (1) $CH_3CH_2CH(Br)COOH$, $CH_3CH(Br)CH_2COOH$, $(CH_3)_2CHCOOH$, $CH_3CH_2CH_2COOH$ II. How will you convert ethanal into the Butane-1,3-diol ? (2) III. Describe the following:	1 2 2

	(a) Cannizzaro reaction (b) Rosenmund Reduction	

KENDRIYA VIDYALAYA SANGATHAN, TINSUKIA REGION

PRE-BOARD 2025-26

ECONOMICS (030) CLASS 12

TIME:3HOURS M.M.–80

GENERALINSTRUCTIONS:

I. Thisquestionpapercontainstwo sections:

SectionA–MacroEconomics

SectionB–IndianEconomicDevelopment

II. Thispapercontains20MultipleChoiceTypeQuestionsof1markeach.

III. This paper contains 4 Short Answer Type Questions of 3 marks each to be answered in 60 to 80 words.

IV. This paper contains 6 Short Answer Type Questions of 4 marks each to be answered in 80 to 100 words.

V. This papercontains4Long Answer TypeQuestionsof6markseach tobeanswered in 100 to 150 words.

S. No	SECTION A – MACRO ECONOMICS	Marks
1	**Which item is not included in the calculation of national income?** A. Employers' contribution to provident fundB. Free services by government C. Defence and security servicesD. Unemployment allowance	1
2	**Read the following statements: Assertion (A) and Reason (R).Choose the correct option from those given below:** **Assertion (A):** GDP at market price includes indirect taxes. **Reason (R):** Net indirect taxes are added to factor cost to derive market price. **Options:** A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A). B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A). C) Assertion (A) is true, but Reason (R) is false. D) Assertion (A) is false, but Reason (R) is true.	1
3	Which of the following is included in domestic territory of India? (a) SBI branch in London (b) Microsoft office in USA	1

	(c) An American company in India (d) American embassy in India	
4	**Suppose for a given economy, S= -60 + 0.1Y and I= Rs 4,000 crore (Where S = Saving Function, Y = National Income and I = Investment Expenditure) Equilibrium level of Income would be Rs_____ crore.** (Choose the correct alternative to fill up the blank) **Alternatives:** a) 4,000 b) 40,000 c) 40,600 d) 60,400	1
5	**If AD >AS national income will** a) Increase b) Decrease c) Not change d) May increase or decrease	1
6	**A commercial bank faces a liquidity crisis due to large-scale depositor withdrawals caused by rumours of financial instability. Which measure by the central bank would best help the bank manage this crisis?** A) Increase the Cash Reserve Ratio (CRR) B) Conduct Open Market Operations by selling government securities C) Provide a short-term loan through the Repo Rate mechanism D) Reduce the Statutory Liquidity Ratio (SLR)	1
7	**Which of the following is a primary function of money?** A) Store of valueB) Measure of value C) Standard of deferred paymentD) Medium of exchange	1
8	**Read the following statement -1 and Statement- 2. Choose one of the correct alternatives given below:** **Statement 1:** The central bank uses the bank rate to control the money supply by influencing commercial banks' borrowing costs. **Statement 2:** A decrease in the bank rate encourages commercial banks to borrow more, increasing the money supply. **Which of the following is correct?** A) Statement 1 is true, and Statement 2 is false. B) Statement 1 is false, and Statement 2 is true. C) Both Statement 1 and Statement 2 are true. D) Both Statement 1 and Statement 2 are false.	1
9	**Read the following statements: Assertion (A) and Reason (R).**	1

	Assertion (A): A persistent Current Account deficit leads to a depletion of a country's foreign exchange reserves. **Reason (R):** To finance a Current Account deficit, a country may use its foreign exchange reserves to pay for excess imports or debt obligations. **Which of the following is correct?** A) Both A and R are true, and R is the correct explanation of A. B) Both A and R are true, but R is not the correct explanation of A. C) A is true, but R is false. D) A is false, but R is true.	
10	**If a country's currency depreciates significantly in a floating exchange rate system, what is the likely impact on its Balance of Payments?** A) Worsens the Current Account balance due to costlier imports B) Improves the Current Account balance by boosting exports C) Increases the Capital Account deficit due to capital flight D) Has no impact on the Balance of Payments	1
11	**You are given the following data of a hypothetical economy:** 1. Compensation of employees: ₹800 crores 2. Rent: ₹100 crores 3. Interest: ₹200 crores 4. Profit: ₹300 crores 5. Net Factor Income from Abroad (NFIA): ₹50 crores **Calculate:** **(i)** National Income using income method **(ii)** Name any two components included in "Compensation of employees".	(1+2) 3
12	During a discussion, Sameer argues that credit creation by commercial banks can lead to inflation. Explain how the process of credit creation by banks works and state one way it could contribute to inflation. **OR** The Reserve Bank of India (RBI) increased the repo rate by 0.5% to control rising prices in the economy. Explain how an increase in the repo rate can help reduce inflation, and mention one potential drawback for borrowers.	3

13	**A country shows high GDP, but its citizens have poor health, low education, and lack basic services.** Based on this context, answer the following: **(i)** Why might GDP be an insufficient measure of economic welfare? **(ii)** Suggest two better indicators to measure the welfare of people.	(2+2) 4
14	**In a hypothetical economy, the MPC (Marginal Propensity to Consume) is 0.75.** **(i)** Calculate the investment multiplier. **(ii)** If investment increases by ₹100 crore, by how much will the national income increase? **(iii)** Explain the role of MPC in determining the size of multiplier. **OR** **Explain with the help of diagram the concept of deficient demand in macroeconomics.**	(1+1+2) 4
15	**Look at the following image and answer the following questions:**  a. Identify the type of Balance of Payments (BoP) transaction this represents. b. Specify which account of the BoP is primarily affected by this transaction. c. Explain how this transaction is recorded in India's BoP (as a credit or debit) and why? d. Analyze the likely impact of this transaction on India's foreign exchange reserves	4

16 **Read the following case and answer the questions:** (2+2+2) 6

In an economy, people are worried about increasing unemployment and falling income levels. The government increases its spending to build roads and schools.

(i) Explain how government expenditure can help achieve equilibrium in income and employment.

(ii) Using a diagram, show equilibrium level of income in a 3-sector economy (with government).

(iii) What type of unemployment can be reduced by such spending? Justify.

OR

CALCULATE NNP AT MARKET PRICE BY PRODUCTION METHOD AND INCOME METHOD

Sr. No.	Items	Amount
1.	Intermediate consumption	
	(a) primary sector	500
	(b) Secondary sector	400
	(c) tertiary sector	300
2.	Value of output	
	(a) primary sector	1,000
	(b) Secondary sector	900
	(c) tertiary sector	700
3.	Rent	10
4.	Emoluments of employers	400
5.	Mixed income	650
6.	Operating surplus	300
7.	Net factor income from abroad	-20
8.	Interest	5
9.	Consumptive of fixed capital	40
10.	Net indirect tax	10

17 **COVID-19 Relief Measures (2020-21 Budget)** (2+2+2) 6

During the COVID-19 pandemic, the Government of India introduced the Atmanirbhar Bharat package in 2020, allocating ₹20 lakh crore (about 10% of GDP) for economic support. This included cash transfers, food subsidies for the poor, and credit guarantees for small businesses. The government increased revenue expenditure, leading to a fiscal deficit of 9.3% of GDP in 2020-21.

Questions:

a) Differentiate between revenue expenditure and capital expenditure with reference to the case. (2 marks)

b) Explain how the Atmanirbhar Bharat package reflects the welfare objectives

	of a government budget. (2 marks) c) Discuss one advantage and one disadvantage of financing the fiscal deficit through borrowing in this context. (2 marks)	
SECTION – B INDIAN ECONOMICS DEVELOPMENT		
18	**Read the following statements: Assertion (A) and Reason (R).Assertion (A):** During 1947–1990, India followed a mixed economy model with a focus on public sector enterprises. **Reason (R):** The government aimed to achieve self-reliance and reduce dependence on foreign imports through import substitution policies. **Options:** A) Both A and R are true, and R is the correct explanation of A. B) Both A and R are true, but R is not the correct explanation of A. C) A is true, but R is false. D) A is false, but R is true.	1
19	**Read the following statements: Assertion (A) and Reason (R).Assertion (A):** The economic reforms of 1991 were initiated due to a balance of payments crisis. **Reason (R):** India's foreign exchange reserves were critically low, forcing the government to pledge gold to secure international loans. **Options:** A) Both A and R are true, and R is the correct explanation of A. B) Both A and R are true, but R is not the correct explanation of A. C) A is true, but R is false. D) A is false, but R is true.	1
20	**The stock of 'skill and expertise' at a point of time is known as:** A.Social infrastructureB.Human capital C.Physical capitalD.None of these	1
21	**Read the following statements -Assertion (A) and Reason (R):** **Assertion (A)–** Education contributes to economic growth. **Reason(R)–** Education confers higher earning capacity on people. **Alternatives:** A.Both Assertion (A) and Reason (R) are true and Reason (R) is the correct	1

<table>
<tr><td></td><td>explanation of Assertion (A).
B.Both Assertion (A) and Reason (R) are true and Reason (R) is not the correct explanation of Assertion (A).
C.Assertion (A) is true but Reason (R) is false.
D.Assertion (A) is false but Reason (R) is true.</td><td></td></tr>
<tr><td>22</td><td>The Self-Help Groups promote thrift among rural households and promote _____credit programmes.
a. Macrob. Micro
c. Externald. Industrial</td><td>1</td></tr>
<tr><td>23</td><td>Assertion (A): Diversification of crop production led to shift from single cropping system to a multi-cropping system.
Reason (R): It reduced the income of farmers due to increase in market risk because of price fluctuation.
(a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
(b) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A).
(c) Assertion (A) is true, but Reason (R) is false.
(d) Assertion (A) is false, but Reason(R) is true</td><td>1</td></tr>
<tr><td>24</td><td>Match the following:
<table><tr><th>Column -I</th><th>Column -II</th></tr><tr><td>(i) Distribution of foodgrains at subsidised rates</td><td>(a) NABARD</td></tr><tr><td>(ii) Assurance of minimum price to farmers for agricultural products</td><td>(b) TANWA</td></tr><tr><td>(iii) Apex bank for monitoring Rural financing</td><td>(c) MSP</td></tr><tr><td>(iv) Project initiated to train women in latest agricultural techniques</td><td>(d) PDS</td></tr></table>Option:
A. (i) (d) (ii) (c) (iii) (a) (iv) (b) B. (i) (c) (ii) (d) (iii) (b) (iv) (a)
C. (i) (d) (ii) (a) (iii) (c) (iv) (b) D. (i) (b) (ii) (c) (iii) (d) (iv) (a)</td><td>1</td></tr>
<tr><td>25</td><td>Which of the following statements is not true about disguised unemployment?
(a) It is mostly found in agriculture sector in India.</td><td>1</td></tr>
</table>

	(b) The output does not fall even if some workers are withdrawn. (c) The Marginal Product (additional output generated by employing one additional unit of labour) is maximum. (d) More than required number of workers are employed for a job which less can accomplish.	
26	**Which of the following is a strategy of sustainable development?** A. Solar power through photovoltaic cells B. Use of CNG C. Traditional knowledge and practices D. All of these	1
27	**What is a key difference between India and China in terms of their development strategy post-1991?** A) India focused on agriculture, while China focused on services B) China emphasized manufacturing and exports, while India focused on services C) India adopted a fully socialist model, while China liberalized completely D) China avoided foreign investment, while India encouraged it	1
28	**"It is necessary to create employment in the formal sector rather than in the informal sector."** Defend or refuse the given statement. **OR** **"The Prime Minister urged to increase the rural income by increasing non-farm activities."**Explain how non- Farm activities can lead to rise in income of people in rural sector	3
29	**"China's one-child norm significantly reduced its population growth rate".**Analyze three socio-economic implications of this policy for China's development.	3
30	Globalisation has integrated India with the world economy but also created challenges. Evaluate four challenges faced by Indian industries due to Globalisation post-1991.	4
31	Explain the role of the service sector in the economic development of India and Pakistan. **OR**	4

	Compare the development approaches of India and China between 1947 and 1990.	
32	**CASE STUDY** Since ages, farmers in India have taken recourse to debt. In the earlier times the same was from informal sources. Since independence with the efforts of the government, formal sector has actively come into picture. Farmers borrow not only to meet their investment needs but also to satisfy their personal needs. Uncertainty of income caused by factors likes crop failure caused by irregular rainfall, Reduction in ground water label, locust/other pest attack etc. These reasons push them into the clutches of the private money Lenders, who charge exorbitant rates of interest which add to their miseries. Various governments in India, at different times for different reasons, introduced debt relief/waiver schemes. These schemes are Used by governments as a quick means to extricate farmers from their indebtedness, helping to restore their capacity to invest and produce, in short to lessen the miseries of the farmers across India. The costs and benefits of such debt relief schemes are, however, a widely debated topic among economists. Some economists argue that such schemes are extremely beneficial to the marginalized farmers while others argue that these schemes add to the fiscal burden of the government, others believe that these schemes nay develop the expectation of repeated bailouts among farmers which may spoil the credit culture among farmers. **Question:** i) Uncertainty of income for farmers in India is majorly caused by_____ **(irregular rainfall/unavailability of loans)** ii) Some economists argue that debt waiver schemes are extremely beneficial to the poor and marginalized farmers, as these Schemes reduce the burden of_____ **(indebtedness/personal expenditures)** iii)The rural banking structure in India consists of a set of multi-agency institutions. _____ **(Regional Rural Banks /Small Industries Development Bank of India)** is expected to dispense credit at cheaper rates for agricultural purposes to farmers. iv) _____ **(Regional Rural Banks/ Land Development Banks)** is the most prominent body responsible for providing loans for long term land	4

<table>
<tr><td></td><td>development.</td><td></td></tr>
<tr><td>33</td><td>Explain how the LPG reforms of 1991 impacted India’s fiscal policy and discuss their role in addressing the balance-of-payments crisis.
OR
Analyze the key developmental achievements and challenges in India from 1947 to 1990.</td><td>6</td></tr>
<tr><td>34</td><td><table><tr><th>Country</th><th>Fertilizer consumption (kg/hectare of arable land)</th></tr><tr><td>Sri Lanka</td><td>284.3</td></tr><tr><td>Bangladesh</td><td>164.5</td></tr><tr><td>Pakistan</td><td>163.3</td></tr><tr><td>India</td><td>153.5</td></tr><tr><td>Bhutan</td><td>9.0</td></tr><tr><td>Nepal</td><td>7.7</td></tr></table>The above table shows the consumption of chemical fertilizer by India and the neighboring countries in 2021. Compare the data. Discuss the alternatives of chemical fertilizer in context ofIndia.</td><td>6</td></tr>
</table>

	KENDRIYA VIDYALAYA SANGATHAN TINSUKIA REGION	
	PRE-BOARD EXAMINATION 2025-26	
	ENGLISH CORE-Code No. 301 **CLASS-XII-(2025-26)**	
Q.P. Code: -QP12ENG01PB25		
Time allowed: 3 Hrs.	**Maximum Marks: 80**	

General Instructions

Read the following instructions very carefully and follow them:

i. All questions are compulsory.

ii. This question paper contains three sections:

Section A: Reading Skills,

Section B: Creative Writing Skills

Section C: Literature.

iii. Attempt all questions based on specific instructions for each part. Write the correct question number and part thereof in your answer sheet.

iv. Separate instructions are given with each question/part, wherever necessary.

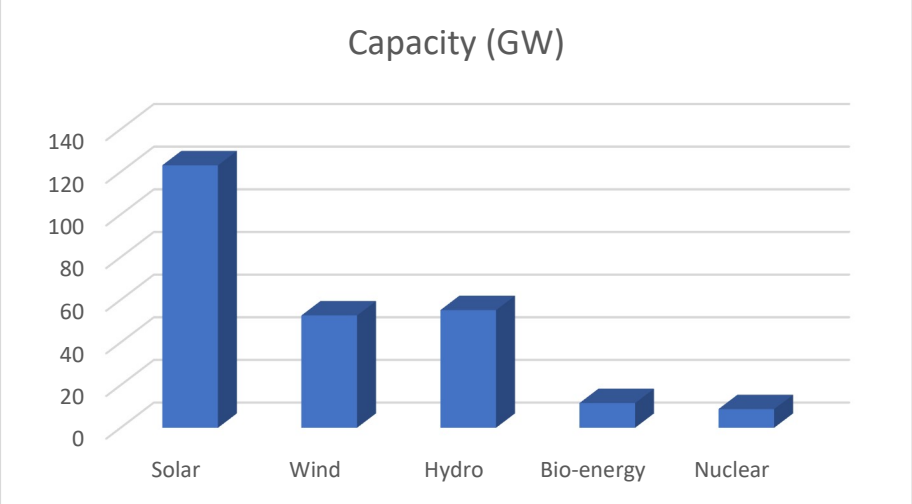
v. Adhere to the prescribed word limit while answering the questions.

	SECTION A **READING SKILLS (22 marks)**	
1.	As the digital revolution reshapes India's classrooms, a pressing question arises: Is online education truly empowering students, or silently exhausting them? Once a topic of parenting blogs, the debate on screen time is now a mainstream concern. The pandemic pushed millions into virtual learning, ensuring continuity but also triggering a new issue: digital fatigue. When schools shut in 2020, technology was hailed as a saviour. Virtual lessons initially seemed revolutionary, but cracks soon appeared. Complaints of eye strain, declining attention, and emotional burnout became common among both students and teachers. According to psychologist Dr Radhika Mehta, "It's not just the number of hours online, but the quality of screen time that matters." Interactive sessions may energise learners, while passive video watching drains them. Digital fatigue, caused by prolonged screen exposure, shows up as headaches, blurred vision, sleep problems, anxiety, and poor focus. A 2024 survey found that nearly 68% of students between 10 and 18 experienced such symptoms after five or more hours of daily online learning. Teachers, too, report exhaustion. "Even though I love teaching," said Smita Rao, a Bengaluru math teacher, "staring at tiles on a screen for hours is draining." Yet, online education cannot be judged only by its drawbacks. For many, especially in rural areas, it has opened doors to access, flexibility, and personalised learning. Students can progress at their own pace and build crucial skills like time management and digital literacy. Experts agree that the solution lies not in reducing screen time but in improving how it is used. Approaches such as experiential learning, blended learning, mindful technology habits, and gamification can make virtual lessons healthier and more engaging. For instance, activity-based projects or screen-free tasks like journaling can extend learning beyond devices. Parents and schools share responsibility in this balance. One parent, Anita Verma from Lucknow, noted that when her family introduced breaks, outdoor play, and screen-free evenings, her son became calmer and more focused. Schools, meanwhile, must design tech-integrated curricula that prioritise creativity and well-being. As India embraces a hybrid future, the key question is no longer "How much screen time is too much?" but "How meaningful is the screen time students are getting?" The challenge ahead is to humanise technology, transforming screens from barriers into windows of curiosity, creativity, and connection.	
	Answer the following questions, based on the passage above.	
1	Which textual evidence shows that online learning led to health-related problems among students?	1

2	Complete the following with a suitable reason. The writer refers to technology as a "saviour" in 2020 in order to convey that _____.	1
3	The phrase *"interactive sessions may energise learners, while passive video watching drains them"* implies that A. all screen time has the same effect B. active engagement creates better learning outcomes C. online learning is always tiring D. video watching improves attention span	1
4	What type of statement is made in the words *"staring at tiles on a screen for hours is draining"*? A. fact B. opinion C. Prediction D. Caution	1
5	Based on her observation, how did Anita Verma's son benefit when breaks and outdoor play were introduced? (Any one benefit)	1
6	Which one of the following statements best explains the phrase *"hybrid future"* as used in the passage? A) A world completely dependent on digital learning B) A future combining online and offline learning C) A time when schools shut permanently D) A situation where learning depends only on parents	1
7	How can schools balance use of technology to prevent exhaustion among students?	2
8	What do the survey findings of 2024 reveal about the intensity of digital fatigue among students? (Answer in about 40 words)	2
9	Why does the author claim that the question *"How meaningful is the screen time?"* is more important than *"How much screen time?"*? (Answer in about 40 words)	2
10	Complete the following with the most suitable option. The main idea of the text is _____. A. the health hazards of screen time in students and teachers B. the role of online education in balancing benefits and drawbacks C. the complaints of teachers and parents about digital tools D. the need to reduce all online classes in schools	1
2.	India's installed renewable energy (RE) capacity has touched 250 gigawatts (GW), which is half of its targeted 500 GW capacity by 2030. This achievement marks a historic milestone in non-fossil installed capacity and reflects over a decade of consistent growth under the Prime Minister. According to the Union Minister for New and Renewable Energy, the achievement across solar, wind, hydro, bio-energy and nuclear power strengthens the country's path towards 500 GW and positions India as a global leader in clean energy. Of the total 250 GW, India has added 123.13 GW of solar power, 52.68 GW of wind, 55.22 GW of hydro, 11.6 GW of bio-energy, and 8.78 GW of nuclear power. Experts, however, stress that achieving the 2030 target will require not just capacity expansion but also improved energy storage, grid integration, and solutions for the intermittency of renewable energy. A consulting report has estimated that India will require investments of $200–250 billion by 2030 to bridge the gap between its present capacity and the target of 500 GW. Additionally, scaling up storage infrastructure by eight times will demand $250–300 billion by FY30. The report also highlights major opportunities in green fuels such as bioethanol, Sustainable Aviation Fuels (SAF), methanol, Compressed Biogas (CBG) and green hydrogen. Government initiatives like blending mandates and obligations are expected to attract $90–100 billion investment in green hydrogen alone. Another policy step supporting this transition is the reduction of GST on renewable energy devices from	

12% to 5%. This is expected to cut project costs, accelerate capacity addition, and eventually lower tariffs for consumers by reducing financing costs.

India's peak power demand touched 250 GW in 2024 and is projected to reach 334 GW by 2029–30, especially during summer months. To meet future demand, the Central Electricity Authority estimates the country will require 777 GW of installed power capacity by 2030, of which 62–64% will come from renewable sources and around 36–38% from thermal energy. Experts believe that India's energy transition must be viewed not only in terms of total power generation mix but also in the incremental addition of renewable sources to meet growing economic needs.



1	According to the passage and the chart, which renewable energy source contributes the most to India's installed capacity?	1
2	Complete the following: Achieving India's 2030 renewable energy target will require not only capacity expansion but also _____.	1
3	Based on the chart, which renewable energy source contributes the least? A. Solar B. Wind C. Bio-energy D. Nuclear	1
4	Find the word from the passage which means "the variability or irregularity in energy production".	1
5	Which of the following best reflects the main idea of the passage? A. India's peak power demand and projections B. India's renewable energy growth, targets, and related policies C. Investments required for energy storage infrastructure D. Opportunities in green fuels only	1
6	The chart highlights the distribution of installed renewable energy capacity. How can policymakers use this information to plan future investments? (Answer in about 20 words)	1
7	How will the reduction of GST on renewable energy devices from 12% to 5% impact projects and consumers? (Answer in about 40 words)	2
8	According to experts, why is incremental addition of renewable sources important? (Answer in about 40 words)	2
	SECTION B **CREATIVE WRITING SKILLS (18 marks)**	

All the names and addresses used in the questions are fictitious. Resemblance, if any, is purely coincidental.

3.	**Attempt any one of the two, (A) or (B), in about 50 words** A. You are Priya/Pranav, Head of the Music Club, Rosewood Public School, Delhi. Your school is organising a "Young Voices Talent Hunt", a singing competition for classes IX–XII. Draft a notice in about 50 words for the school notice board, giving details of the event and inviting entries. Include all necessary details. Put your notice in a box. **OR** B. You are Aditi/Ajay, Secretary of the Resident Welfare Association, Green Valley Apartments. The RWA is organising a Free Health Check-up Camp for all residents in collaboration with City Hospital. Draft a notice in about 50 words, informing the residents and requesting them to participate. Mention all necessary details. Put your notice in a box.	4
4.	**Attempt any one of the two, (a) or (B), in about 50 words.** A. You are Ritika Sharma, the Secretary of the Literary Club of Sunrise Public School, Bhopal. Your school is organising a Book Fair and Literary Meet. Draft a formal invitation in about 50 words, inviting Mr. Anil Joshi, a noted author, to inaugurate the event and interact with the students. **OR** B. You are Rahul Mehra, residing at 23, Green Park, Delhi. You have been invited to attend the Silver Jubilee Celebration of St. Xavier's College, your alma mater. Write a formal reply in about 50 words, accepting the invitation and expressing your joy at being remembered.	4
5.	**Attempt any one of the two, (A) or (B), in 120-150 words.** A. You are Sneha Verma, residing at 12, Ridge Road, Pune. You read in a newspaper that the rapid rise of AI and automation in India is threatening traditional jobs and skill development among young people, which could affect the employability of the next generation. Write a letter to the editor of The Indian Express highlighting the issue. Suggest measures to prepare students for the AI-driven future. (120–150 words) • Automation and AI replacing routine jobs, affecting youth employment. • Importance of teaching digital literacy, coding, and soft skills from school. • Role of government, schools, and industries in reskilling programs. • Need for entrepreneurship and creative problem-solving to secure the future workforce. B. You are Raghav Khanna, residing at 45, Lotus Street, Hyderabad. You saw an advertisement in The Hindu for the post of Data Analyst at Future Tech Solutions Pvt. Ltd., Hyderabad. Write a formal application expressing your interest in the position. Include your bio-data with educational qualifications, skills, and relevant experience. (120–150 words) **WANTED – DATA ANALYST** FutureTech Solutions Pvt. Ltd., Hyderabad, a reputed and fast-growing IT firm, invites applications for the post of Data Analyst. **Eligibility Criteria:** • Graduate/Postgraduate in Statistics/Mathematics/Computer Science from a recognised university. • Proficiency in MS Excel, SQL, Python, and data visualization tools. • Strong analytical, research, and problem-solving skills. • Prior experience through projects/internships will be an added advantage. **Remuneration:** Commensurate with qualifications and experience. Interested candidates may send their detailed application with bio-data and a recent passport-size photograph within 10 days to: The HR Manager FutureTech Solutions Pvt. Ltd. Plot No. 21, Cyber Towers, HITEC City, Hyderabad – 500081 Email: careers@futuretech.in	5
6.	Attempt any one of the two, (A) or (B), in 120-150 words A. **A.** India has witnessed a growing interest in *sustainable living* with people adopting eco-friendly habits such as waste segregation, recycling, and use of renewable energy. You are Ritika Sharma. Write an article for the monthly magazine edition of *The Green Future* discussing the importance of sustainable living in today's world. Write the article using your own ideas as well as the cues given.	5

	• Environmental benefits • Health and lifestyle changes • Role of youth and communities • Long-term impact on future generations **OR** B. The *Annual Science and Innovation Fair* was recently held in Brighton Public School, Pune, showcasing students' creativity and problem-solving skills. As the student reporter Arjun Mehta, write a report for the school magazine describing the event. Write the report using your own ideas as well as the cues given. • Organisation and objectives • Student projects and models • Participation and enthusiasm • Outcome and overall response	
	SECTION C **LITERATURE (40 marks)**	
7.	**Read the following extracts and solve ANY ONE of the given two, (A) or (B)**	
A	*What I want should not be* *confused* *with total inactivity.* *Life is what it is about;* *I want no truck with death.* *If we were not so single-minded* *about keeping our lives moving,* *and for once could do nothing,* *perhaps a huge silence* *might interrupt this sadness* *of never understanding ourselves* *and of threatening ourselves with* *death.* *(Keeping Quite)*	
I.	What distinction does the poet draw between *"total inactivity"* and the stillness he recommends?	1
II.	The phrase "I want no truck with death" implies that the poet— a) rejects the idea of glorifying silence as death b) prefers permanent inactivity over reflection c) advocates detachment from life and society d) equates life with complete emptiness	1
III.	Why does the poet call human beings "single-minded" in their pursuit of keeping life moving?	1
IV.	The poet believes that a "huge silence" could act as a _____, enabling humans to confront their inner selves.	1
V	The underlying emotion conveyed in the extract is— a) despair and resignation b) contemplative hope c) nostalgia for the past d) playful detachment	1
VI.	All of the following are true for the extract EXCEPT—	1

	a) The poet differentiates silence from lifelessness. b) The tone reflects a meditative outlook on life. c) The poet suggests that reflection can prevent self-destruction. d) The imagery used is celebratory and humorous in nature.	
	OR	
B.	*It is in the news that all these pitiful kin* *Are to be bought out and mercifully gathered in* *To live in villages, next to the theatre and the store,* *Where they won't have to think for themselves anymore,* *While greedy good-doers, beneficent beasts of prey,* *Swarm over their lives enforcing benefits* *That are calculated to soothe them out of their wits,* *And by teaching them how to sleep they sleep all day,* *Destroy their sleeping at night the ancient way.* *(A Roadside Stand)*	
I	What is the primary criticism the poet makes about the "pitiful kin" in the first three lines?	1
II	Complete the sentence: The phrase "won't have to think for themselves anymore" suggests that the people are being made _____ by external authorities.	1
III	Explain the phrase *"beneficent beasts of prey"* and discuss how it reflects the poet's view of the so-called "helpers."	1
IV	Fill in the blank: The poet implies that externally imposed "benefits" _____ the natural way of life, making people passive and disconnected from tradition.	1
V	Which of the following best describes the tone of the extract? a) Satirical and critical b) Joyful and celebratory c) Melancholic and nostalgic d) Neutral and descriptive	1
VI	All of the following are true about the extract EXCEPT— a) The poet critiques the artificial control of lives under the guise of "helping." b) The extract celebrates urbanization and modernization. c) Irony is used to highlight the conflict between imposed order and natural life. d) The imagery emphasizes the loss of autonomy caused by enforced benefits.	1
8.	**Read the following extracts and solve ANY ONE of the given two, (A) or (B).**	
A.	*"We discussed our fate some moments, and when Judewin said,* *'We have to submit, because they are strong,' I rebelled.* *'No, I will not submit! I will struggle first!' I answered.* *I watched my chance, and when no one noticed, I disappeared.* *I crept up the stairs as quietly as I could in my squeaking shoes, — my moccasins had been exchanged for shoes. Along the hall I passed, without knowing whither I was going. Turning aside to an open door, I found a large room with three white beds in it. The windows were covered with dark green curtains, which made the room very dim. Thankful that no one was there, I directed my steps toward the corner farthest from the door. On my hands and knees I crawled under the bed, and huddled myself in the dark corner."* (Memories of Childhood)	

I	What does the narrator's refusal to submit reveal about her personality and approach to challenges?	
II	Explain why the narrator chooses to crawl under the bed rather than hide elsewhere. How does this action reflect her state of mind?	
III	How does the author's description of the room and the dark corner create a sense of suspense?	
IV	The narrator's change from moccasins to shoes suggests more than a mere change in footwear. Select the most appropriate interpretation: a) The narrator is trying to adapt to a foreign environment while remaining cautious. b) The narrator intends to make deliberate noise to distract others. c) The narrator is careless about comfort and practicality. d) The narrator is seeking attention through their movement.	
	OR	
B	*"Climate change is one of the most hotly contested environmental debates of our time. Will the West Antarctic ice sheet melt entirely? Will the Gulf Stream ocean current be disrupted? Will it be the end of the world as we know it? Maybe. Maybe not. Either way, Antarctica is a crucial element in this debate — not just because it's the only place in the world which has never sustained a human population and therefore remains relatively 'pristine' in this respect; but more importantly, because it holds in its ice-cores half-million-year-old carbon records trapped in its layers of ice. If we want to study and examine the Earth's past, present and future, Antarctica is the place to go."* (Journey to the end of the Earth)	
I	Why is Antarctica described as "crucial" in the study of climate change? Explain in your own words.	
II	Complete the sentence: The "half-million-year-old carbon records" are significant because they allow scientists to _____.	
III	The rhetorical questions in the extract (e.g., "Will the West Antarctic ice sheet melt entirely?") serve to: A. confuse the reader B. highlight uncertainty and emphasize the urgency of climate change C. provide exact scientific predictions D. describe Antarctica's geography	
IV	The phrase 'relatively pristine' suggests that Antarctica is largely _____. Explain why this aspect is important for scientific research.	
9.	**Read the following extracts and solve ANY ONE of the given two, (A) or (B)**	
A	*"This went on until July. But I was still not satisfied. I was not sure that all the terror had left. So I went to Lake Wentworth in New Hampshire, dived off a dock at Triggs Island, and swam two miles across the lake to Stamp Act Island. I swam the crawl, breast stroke, side stroke, and back stroke. Only once did the terror return. When I was in the middle of the lake, I put my face under and saw nothing but bottomless water. The old sensation returned in miniature. I laughed and said, 'Well, Mr Terror, what do you think you can do to me?' It fled and I swam on."* (Deep Water)	
I	Which of the following best reflects the narrator's attitude toward fear in this extract? 1. Brave and determined 2. Confused and hesitant 3. Mocking and confident 4. Passive and fearful Options: A. 1 and 2 B. 2 and 4 C. 1 and 3 D. 3 and 4	1
II	Fill in the blank using words from the extract:	1

	The narrator dived off the dock at Triggs Island and swam two miles across the lake to _____.	
III	How did the narrator react when the old sensation of fear returned in miniature? A. He panicked and returned to the dock B. He stopped swimming and sat on a rock C. He laughed and challenged his fear D. He called for help	1
IV	Why the narrator continue to practise swimming across the lake despite his fear?	1
V	Justify that the narrator's sense of accomplishment was linked to confronting his fear, based on the extract.	1
VI	Complete the following suitably using your own words: When the narrator says, "Well, Mr Terror, what do you think you can do to me?" it shows that _____.	1
	OR	
B	*"The Encounter wasn't a known commodity among the Gemini literati. I wanted to get an idea of the periodical before I spent a considerable sum in postage sending a manuscript to England. In those days, the British Council Library had an entrance with no long winded signboards and notices to make you feel you were sneaking into a forbidden area. And there were copies of The Encounter lying about in various degrees of freshness, almost untouched by readers. When I read the editor's name, I heard a bell ringing in my shrunken heart. It was the poet who had visited the Gemini Studios — I felt like I had found a long lost brother and I sang as I sealed the envelope and wrote out his address."* (Poets and Pancakes)	
I	Fill in the blank using words or phrases from the extract (maximum 7 words): The narrator wanted to get an idea of the periodical before sending his manuscript to England because _____.	1
II	Which of the following best captures the narrator's feelings on seeing the editor's name? 1. He felt sudden excitement 2. He felt a deep emotional connection 3. He was indifferent 4. He was hesitant 5. Select the most suitable option: A. 1 and 3 B. 2 and 4 C. 1 and 2 D. 3 and 4	1
III	The description of the British Council Library entrance highlights the theme of _____ (as suggested by the minimal signage at the library). A. secrecy and mystery B. openness and friendliness C. fear of authority D. indifference to readers	1
IV	Copy the sentence from the extract that shows the narrator's emotional excitement on recognizing the editor's name. (Use quotation marks exactly as in the extract)	1
V	Explain in one sentence (10–12 words), using evidence from the extract, why the copies of The Encounter	1

	were almost untouched by readers.	
VI	What does the expression "I felt like I had found a long lost brother" reveal about the narrator's state of mind?	1
10.	**Answer any five of the following six questions in 40-50 words each:**	10
I	The villagers' behaviour during the lesson reflects a certain attitude toward education and language. Discuss how M. Hamel's lesson becomes more than just a language lesson for the villagers. (The Last Lesson)	2
II	The chapter depicts the struggles of children trapped in poverty and exploitation. Discuss how Ghosh uses real-life incidents to help the reader understand the impact of socio-economic deprivation. (Lost Spring)	2
III	The peddler compares life to a rattrap, expressing a cynical view of the world. Explain why he feels trapped by society and how the story challenges his outlook. (The Rattrap)	2
IV	Despite their suffering, the peasants resist the planters' tyranny. Discuss how the story portrays their courage and the human spirit against exploitation. (Indigo)	2
V	According to Keats, beauty has a lasting effect on human happiness. Explain how the poet conveys the idea that experiences of beauty provide continuous solace and joy. (A Thing of Beauty)	2
VI	The poet describes Aunt Jennifer's hands as "terrified" yet skilled. Discuss how this imagery conveys her struggles and the limitations imposed on her by society. (Aunt Jennifer's Tigers)	2
11.	**Answer any two of the following three questions in 40-50 words each:**	
I	How does the story demonstrate the universal importance of compassion and humanity in times of crisis? (The Enemy)	
II	Explain how the story conveys themes of acceptance, understanding, and emotional healing through their relationship. (On the Face of It)	
III	How does the story depict the hardships faced by the marginalized community, and what does it teach about human dignity? (We Too Are Human Beings)	
12.	**Answer any one of the following two questions, in about 120-150 words.**	
A	Compare how 'The Rattrap' and 'On the Face of It' depict human relationships and the transformative power of kindness. How do acts of empathy influence the characters' perspectives and behaviour?	
	OR	
B	The rural-urban divide causes immense anguish to the poet. How does the poet express this in the poem, *A Roadside Stand*?	
13.	**Answer any one of the following two questions, in about 120-150 words.**	
A	Justify how the king's obsession with killing tigers reveals his arrogance and misuse of power, and explain the role of irony in his downfall.	
	OR	
B	Even the tiniest of life forms can have a huge impact on Earth's ecosystem.' How does the lesson, *Journey to the End of the Earth* convey this message? What values can students derive from this idea in terms of their role in environmental protection?	

केन्द्रीय विद्यालय संगठन तिनसुकिया संभाग

KENDRIYA VIDYALAYA SANGATHAN TINSUKIA REGION

पूर्व परिषदीय परीक्षा 2025-26 / PRE-BOARD EXAMINATION 2025-26

विषय/Subject :- Geography(भूगोल) विषय कोड (सीबीएसई)/Subject Code(CBSE):- 029

कक्षा/ Class:-बारहवीं-XII

प्रश्न पत्र कोड /Q.P. Code:- QP12GEO01PB25

निर्धारित समय/Time Allowed:- 3 घंटे अधिकतम अंक/Maximum Marks :- 70

GENERAL INSTRUCTION:

Read the following instructions carefully and follow them:

1. This question paper contains 30 questions. All questions are compulsory.
2. This question paper is divided into five sections- A, B, C, D and E.
3. Section A - Question number 1 to 14 are Multiple Choice questions and 15-17 are para based MCQs, carry 1 mark each.
4. Section B- Question number 18 and 19 are Source based questions and each carry 3 marks.
5. Section C- Question number 20 to 23 are Short Answer type questions. Each carry 3 marks and answer to these questions shall be written in 80 to 100 words.
6. Section D- Question number 24 to 28 are Long Answer type questions. Each carry 5 marks and answer to these questions shall be written in 120 to 150 words.
7. Section E- Question number 29 and 30 are Map based questions and carry 5 marks each.
8. There is no overall choice given in the questions. However, there is an internal choice has been provided in a few questions in all sections other than Section A.

सामान्य निर्देश:

निम्नलिखित निर्देशों को ध्यानपूर्वक पढ़िए एवं उनका पालन कीजिये :

1. इस प्रश्न पत्र में 30 प्रश्न हैं। सभी प्रश्न अनिवार्य हैं।

2. यह प्रश्न पत्र पाँच खंडों में विभाजित है- A, B, C, D और E।

3. खंड A - प्रश्न संख्या 1 से 14 बहुविकल्पीय प्रश्न हैं और 15-17 पैरा आधारित MCQ हैं, जिनमें से प्रत्येक 1 अंक का है।

4. खंड B - प्रश्न संख्या 18 और 19 स्रोत आधारित प्रश्न हैं, जिनमें से प्रत्येक 3 अंक का है।

5. खंड C - प्रश्न संख्या 20 से 23 लघु उत्तरीय प्रश्न हैं, जिनमें से प्रत्येक 3 अंक का है और इन प्रश्नों के उत्तर 80 से 100 शब्दों में लिखे जाने हैं।

6. खंड D - प्रश्न संख्या 24 से 28 दीर्घ उत्तरीय प्रश्न हैं, जिनमें से प्रत्येक 5 अंक का है और इन प्रश्नों के उत्तर 120 से 150 शब्दों में लिखे जाने हैं।

7. खंड E - प्रश्न संख्या 29 और 30 मानचित्र आधारित प्रश्न हैं जिनमें से प्रत्येक 5 अंक का है।

8. प्रश्न में कोई समग्र विकल्प नहीं दिया गया है। हालाँकि, खंड A के अलावा अन्य सभी खंडों में कुछ प्रश्नों में आंतरिक विकल्प दिया गया है।

प्र.क्र./ Q. N	SECTION A	अंक/ Marks
Q1	There are two statements marked as Assertion (A) and Reason(R). Mark your answer as per the codes provided below. **Assertion:** Long and healthy life with dignity indicates the high level of human development index. **Reason:** Investment in health and education enhance the capabilities of people. **Options:** A. Both (A) and (R) are true but (R) is not the correct explanation of (A) B. Both (A) and (R) are true and (R) is the correct explanation of (A) C. Both (A) and (R) are incorrect. D.(A) is correct but (R) is incorrect **दो कथन हैं जिन्हें अभिकथन (A) और कारण (R) के रूप में चिह्नित किया गया है। नीचे दिए गए कोड के अनुसार अपना उत्तर दें।** **अभिकथन:** गरिमा के साथ लंबा और स्वस्थ जीवन मानव विकास सूचकांक के उच्च स्तर को इंगित करता है। **कारण:** स्वास्थ्य और शिक्षा में निवेश लोगों की क्षमताओं को बढ़ाता है। **विकल्प:** A. (A) और (R) दोनों सत्य हैं लेकिन (R) (A) का सही स्पष्टीकरण नहीं है B. (A) और (R) दोनों सत्य हैं और (R) (A) का सही स्पष्टीकरण है C. (A) और (R) दोनों गलत हैं D. (A) सही है लेकिन (R) गलत है	1
Q2	Which pillar of human development stress on power to make choices? A) Productivity B) Equity C) Empowerment D) Sustainability मानव विकास का कौन सा स्तंभ चुनाव करने की शक्ति पर जोर देता है? ए) उत्पादकता बी) समता सी) सशक्तिकरण डी) सतत पोषणता	1
Q3	Which one of the following activities is related to quaternary sector? A) Manufacturing computers B) University teaching C) Paper and Raw pulp production D) Printing books निम्नलिखित गतिविधियों में से कौन सा चतुर्थक क्षेत्र से संबंधित है? A) कंप्यूटर निर्माण B) विश्वविद्यालय शिक्षण C) कागज और कच्चे पल्प का उत्पादन D) पुस्तकों की छपाई	1
Q4	Which of the following aspects of life are affected by global trade? वैश्विक व्यापार से जीवन के निम्नलिखित पहलुओं में से कौन से प्रभावित होते हैं? A. Health स्वास्थ्य B) Environment पर्यावरण C) Well-Being कल्याण D) All of the above उपरोक्त सभी	1
Q5	The act of opening up economies for trading is known as- A) Balance of Trade B) Privatisation C) Trade liberalisation D) Dumping अर्थव्यवस्थाओं को व्यापार के लिए खोलने की क्रिया को क्या कहते हैं? A) व्यापार संतुलन B) निजीकरण C) व्यापार उदारीकरण D) डंपिंग	1
Q6	Consider the following and choose the correct answer with the help of given codes. **GROWTH PHASES of POPULATION** | **CHARACTERISTICS**	1

I-1901-21	1. World War-II, Great economic depression
II- 1921-51	2. Growth rate slowing down
III-1951-1981	3. Poor Health and illiteracy
IV-1981 Onwards	4. International migration and population explosion

	I	II	III	IV
A.	4	3	1	2
B.	3	1	4	2
C.	1	4	3	2
D.	3	2	4	1

निम्नलिखित पर विचार करें और दिए गए कोड की सहायता से सही उत्तर चुनें।

जनसंख्या वृद्धि के चरण	**विशेषताएँ**
I - 1901-21	1. द्वितीय विश्व युद्ध, महान आर्थिक मंदी
II- 1921-51	2. विकास दर में कमी
III-1951-1981	3. खराब स्वास्थ्य और निरक्षरता
IV-1981 के बाद	4. अंतर्राष्ट्रीय प्रवास और जनसंख्या विस्फोट

	I	II	III	IV
A.	4	3	1	2
B.	3	1	4	2
C.	1	4	3	2
D.	3	2	4	1

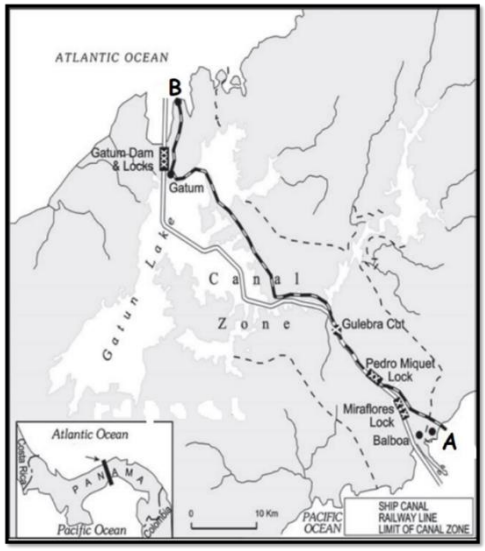
Q7	Arrange the following religious community in descending (Largest to smallest) order in terms of population size. (India) Muslim, Sikh, Christian, Hindu A. Muslim, Hindu, Christian, Sikh B. Hindu, Muslim, Christian, Sikh C. Muslim, Hindu, Sikh, Christian D. Hindu, Muslim, Sikh, Christian निम्नलिखित धार्मिक समुदायों को जनसंख्या के आकार के अनुसार अवरोही क्रम (सबसे बड़े से सबसे छोटे) में व्यवस्थित करें। मुस्लिम, सिख, ईसाई, हिंदू A. मुस्लिम, हिंदू, ईसाई, सिख B. हिंदू, मुस्लिम, ईसाई, सिख C. मुस्लिम, हिंदू, सिख, ईसाई D. हिंदू, मुस्लिम, सिख, ईसाई	1
Q8	Which one of the following is not a land use category? A) Culturable Waste B) Net Area Sown C) Farm Land D) Current Fallow निम्नलिखित में से कौन-सी भूमि उपयोग श्रेणी नहीं है? A) कृषि योग्य अपशिष्ट B) शुद्ध बोया गया क्षेत्र C) कृषि भूमि D) वर्तमान परती	1
Q9	Consider the following statements and choose the correct answer with the help of given options: I. Crop failures and low returns from agriculture have forced farmers to fall in the trap of indebtedness. II. Even poor performance of south-west monsoon does not adversely affect the supply of canal water for irrigation.	1

	Options- A. Both the statements are correct. B. Only statement I is correct and II is incorrect. C. Only statement II is correct and I is incorrect. D. Both the statements are incorrect. **निम्नलिखित कथनों पर विचार करें और दिए गए विकल्पों की सहायता से सही उत्तर चुनें:** I. फसल की विफलता और कृषि से कम लाभ ने किसानों को ऋणग्रस्तता के जाल में फँसने के लिए मजबूर कर दिया है। II. दक्षिण-पश्चिम मानसून के खराब प्रदर्शन से भी सिंचाई के लिए नहर के पानी की आपूर्ति पर प्रतिकूल प्रभाव नहीं पड़ता है। **विकल्प-** A. दोनों कथन सही हैं। B. केवल कथन I सही है और II गलत है। C. केवल कथन II सही है और I गलत है। D. दोनों कथन गलत हैं।	
Q10	Which of the following state or govt. has taken up the Neeru-Meeru programme? A) Andhra Pradesh B) Central Govt. C) Madhya Pradesh D) Rajasthan निम्नलिखित में से किस राज्य या सरकार ने नीरू–मीरू कार्यक्रम शुरू किया है? A) आंध्र प्रदेश B) केंद्र सरकार C) मध्य प्रदेश D) राजस्थान	1
Q11	Which one of the following Indian states has the highest ground water utilization (in percent) of its total ground water potential? A) Tamil Nadu B) Punjab C) Haryana D) Rajasthan निम्नलिखित में से किस भारतीय राज्य में कुल भूजल क्षमता का सबसे अधिक भूजल उपयोग (प्रतिशत में) है? A) तमिलनाडु B) पंजाब C) हरियाणा D) राजस्थान	1
Q12	In which state the Tarapur nuclear power project is located? A) Rajasthan B) Karnataka C) Tamil Nadu D) Maharashtra तारापुर परमाणु ऊर्जा परियोजना किस राज्य में स्थित है? A) राजस्थान B) कर्नाटक C)तमिलनाडु D) महाराष्ट्र	1
Q13	Sadiya-Dhubri stretch is the part of which National Waterway (NW) in India? सादिया-धुबरी खंड भारत में किस राष्ट्रीय जलमार्ग (NW) का हिस्सा है? A) NW-1 B) NW-2 C) NW-3 D) NW-4	1
Q14	Which of the following are connected by Atal Tunnel? निम्नलिखित में से कौन अटल सुरंग से जुड़ा हुआ है? A) Manali to Ladakh B) Manali to Lahaul Spiti C) Ladakh to Kargil D) Ladakh to Srinagar A) मनाली से लद्दाख B) मनाली से लाहौल स्पीति C) लद्दाख से कारगिल D) लद्दाख से श्रीनगर	1
	Read the given passage carefully and answer the question no. 15, 16 and 17. **दिए गए गद्यांश को ध्यानपूर्वक पढ़कर प्रश्न संख्या 15, 16 और 17 के उत्तर दीजिए।** People prefer living on flat plains and gentle slopes. This is because such areas are favorable for the production of crops and to build roads and industries. The mountainous and hilly areas hinder the development of transport network and hence initially do not favor agricultural and industrial development. So, these areas tend to be less populated. The Ganga plains are among the most densely populated areas of the world while the mountains zones in the Himalayas are scarcely populated. An extreme climate such as very hot or cold deserts are uncomfortable for human habitation. Areas with a comfortable	

	climate, where there is not much seasonal variation attract more people. Areas with very heavy rainfall or extreme and harsh climates have low population. Mediterranean regions were inhabited from early periods in history due to their pleasant climate. Cities offer better employment opportunities, educational and medical facilities, better means of transport and communication. Good civic amenities and the attraction of city life draw people to the cities. It leads to rural to urban migration and cities grow in size. Mega cities of the world continue to attract large number of migrants every year. लोग समतल मैदानों और हल्की ढलानों पर रहना पसंद करते हैं। ऐसा इसलिए है क्योंकि ऐसे क्षेत्र फसलों के उत्पादन, सड़कों और उद्योगों के निर्माण के लिए अनुकूल होते हैं। पर्वतीय और पहाड़ी क्षेत्र परिवहन नेटवर्क के विकास में बाधा डालते हैं और इसलिए शुरुआत में कृषि और औद्योगिक विकास के अनुकूल नहीं होते। इसलिए, इन क्षेत्रों में आबादी कम होती है। गंगा के मैदान दुनिया के सबसे घनी आबादी वाले क्षेत्रों में से हैं, जबकि हिमालय के पर्वतीय क्षेत्र विरल हैं। अत्यधिक गर्म या ठंडे रेगिस्तान जैसी चरम जलवायु मानव निवास के लिए असुविधाजनक होती है। आरामदायक जलवायु वाले क्षेत्र, जहाँ मौसमी परिवर्तन बहुत अधिक नहीं होते, अधिक लोगों को आकर्षित करते हैं। बहुत भारी वर्षा या अत्यधिक और कठोर जलवायु वाले क्षेत्रों में जनसंख्या कम होती है। भूमध्यसागरीय क्षेत्र अपनी सुखद जलवायु के कारण इतिहास के प्रारंभिक काल से ही बसे हुए थे। शहर बेहतर रोजगार के अवसर, शैक्षिक और चिकित्सा सुविधाएँ, परिवहन और संचार के बेहतर साधन प्रदान करते हैं। अच्छी नागरिक सुविधाएँ और शहरी जीवन का आकर्षण लोगों को शहरों की ओर आकर्षित करता है। इससे गाँवों से शहरों की ओर प्रवास होता है और शहरों का आकार बढ़ता है। दुनिया के बड़े शहर हर साल बड़ी संख्या में प्रवासियों को आकर्षित करते रहते हैं।	
Q15	Which one of the following supports the industrial development.? A) Plains B) Hilly Areas C) Extreme Climate D) Cold desert निम्नलिखित में से कौन सा औद्योगिक विकास में सहायक है? A) मैदानी क्षेत्र B) पहाड़ी क्षेत्र C) चरम जलवायु D) ठंडा रेगिस्तान	1
Q16	Which one of the following places is a good example of pleasant climate? A) Himalayas B) Plains C) Mediterranean region D) Cities निम्नलिखित में से कौन सा स्थान सुखद जलवायु का अच्छा उदाहरण है? A) हिमालय B) मैदान C) भूमध्यसागरीय क्षेत्र D) शहर	1
Q17	High seasonal variations refer to— A) High population B) Low population C) No impact on population D) None of these उच्च मौसमी विविधताएँ निम्न से संबंधित हैं - A) अधिक जनसंख्या B) कम जनसंख्या C) जनसंख्या पर कोई प्रभाव नहीं D) इनमें से कोई नहीं	1
	SECTION-B	
Q18	**Observe the given picture and answer the following question.** **दिए गए चित्र का अवलोकन करें और निम्नलिखित प्रश्न का उत्तर दें।**  1. Which issue is highlighted by this programme? इस कार्यक्रम द्वारा किस मुद्दे पर प्रकाश डाला गया है? 2. Write the key points of Beti Bachao Beti Padhao. बेटी बचाओ बेटी पढ़ाओ के मुख्य बिंदु लिखिए।	1 2

Q19.	Observe the below picture and answer the following question. नीचे दी गई तस्वीर को देखिए और निम्नलिखित प्रश्न का उत्तर दीजिए।  I. Name the economic activity shown in this picture? इस चित्र में दर्शाई गई आर्थिक गतिविधि का नाम बताइए? II. Write a short note on this economic activity. इस आर्थिक क्रियाकलाप पर एक संक्षिप्त टिप्पणी लिखिए।	1 2

SECTION-C

Q20	Differentiate between environmental determinism and possibilism with suitable examples. उपयुक्त उदाहरणों के साथ पर्यावरणीय नियतिवाद और संभाव्यतावाद के बीच अंतर स्पष्ट कीजिए। OR Explain any two subfields of human geography in detail. मानव भूगोल के किन्हीं दो उपक्षेत्रों की विस्तार से व्याख्या कीजिए।	3
Q21	**Observe the following picture.** निम्नलिखित चित्र को देखिए।  a) Identify and name the canal shown in the map. मानचित्र में दिखाई गई नहर को पहचानें और उसका नाम बताएँ। b) Name the oceans connected by this canal. इस नहर से जुड़े महासागरों के नाम बताएँ। c) Name the point shown on the map as A and B. मानचित्र पर A और B दर्शाए गए बिंदुओं के नाम बताएँ।	3
Q22.	Why do some states of India have high population than others? Explain with suitable examples? भारत के कुछ राज्यों की जनसंख्या अन्य राज्यों की तुलना में अधिक क्यों है? उपयुक्त उदाहरणों सहित समझाइए।	3
Q23.	Explain any two types of rural settlement in detail? ग्रामीण बस्तियों के किन्हीं दो प्रकारों का विस्तार से वर्णन कीजिए?	3

SECTION D

Q24.	Explain the features of market gardening and horticulture with the help of suitable examples.	5

	उपयुक्त उदाहरणों की सहायता से बाज़ार बागवानी और बागवानी की विशेषताओं की व्याख्या कीजिए।	
Q25.	What were the problems of Bharmaur region and what steps were taken for the development of Bharmaur. Discuss in detail. भरमौर क्षेत्र की क्या समस्याएं थीं और भरमौर के विकास के लिए क्या कदम उठाए गए? विस्तार से चर्चा करें। OR Suggest measures for promotion of sustainable development in Indira Gandhi Canal Command Area. इंदिरा गांधी नहर कमान क्षेत्र में सतत विकास को बढ़ावा देने के लिए उपाय सुझाएँ।	5
Q26.	Describe any five features of changing pattern of the international trade of India. भारत के अंतर्राष्ट्रीय व्यापार के बदलते स्वरूप की किन्हीं पाँच विशेषताओं का वर्णन कीजिए। OR Name the major sea ports of India and describe the significance of sea ports for economic development of India. भारत के प्रमुख समुद्री बंदरगाहों के नाम बताइए तथा भारत के आर्थिक विकास के लिए समुद्री बंदरगाहों के महत्व का वर्णन कीजिए।	5
Q27.	What are the factors influencing industrial locations. Explain in detail. औद्योगिक स्थानों को प्रभावित करने वाले कारक क्या हैं? विस्तार से समझाइए। OR Explain why high-tech industries in many countries are being attracted to the peripheral areas of major metropolitan centers? बताएं कि क्यों कई देशों में उच्च तकनीक उद्योग प्रमुख महानगरीय केंद्रों के परिधीय क्षेत्रों की ओर आकर्षित हो रहे हैं?	5
Q28.	What are the problems of slums in India and discuss with examples. भारत में मलिन बस्तियों की समस्याएँ क्या हैं और उदाहरणों सहित चर्चा कीजिए। OR Explain major problems associated with urban waste disposal in India. भारत में शहरी अपशिष्ट निपटान से जुड़ी प्रमुख समस्याओं की व्याख्या करें।	5

SECTION E

Q29.	**On the given political map of the World, seven geographical features have been marked as A, B, C, D, E, F and G. Identify *<u>*any five*</u>* with the help of the following information and write their correct names on the lines drawn near each feature.** A) An area of subsistence gathering B) An international airport C) A major shipping canal D) A sea port of Europe E) An area of Nomadic Herding F) An international Seaport G) A terminal station of a Transcontinental railway **विश्व के दिए गए राजनीतिक मानचित्र पर, सात भौगोलिक विशेषताओं को A, B, C, D, E, F और G के रूप में चिह्नित किया गया है। निम्नलिखित जानकारी की सहायता से *<u>*किन्हीं पाँच*</u>* को पहचानें और प्रत्येक विशेषता के पास खींची गई रेखाओं पर उनके सही नाम लिखें।** A) एक जीविका संग्रहण का क्षेत्र B) एक अंतर्राष्ट्रीय हवाई अड्डा C) एक प्रमुख नौवहन नहर D) यूरोप का एक समुद्री बंदरगाह E) खानाबदोश पशुपालन का क्षेत्र F) एक अंतर्राष्ट्रीय बंदरगाह G) एक अंतरमहाद्वीपीय रेलवे का एक टर्मिनल स्टेशन	**5**
Q30	**Locate and label any five of the following geographical features on the political outline map of India.** A) Lowest population density state as per 2011 census B) Highest rice producing state in total production C) Mathura oil refinery D) Bailadila Iron mine E) Kochi port F) An international airport in Gujarat	5

G) A Manganese mine in Madhya Pardesh

भारत के राजनीतिक रेखा मानचित्र पर निम्नलिखित भौगोलिक विशेषताओं में से किन्हीं पाँच को चिह्नित करें और उन पर लेबल लगाएँ।

A) 2011 की जनगणना के अनुसार सबसे कम जनसंख्या घनत्व वाला राज्य

B) कुल उत्पादन में सबसे अधिक चावल उत्पादक राज्य

C) मथुरा तेल रिफाइनरी

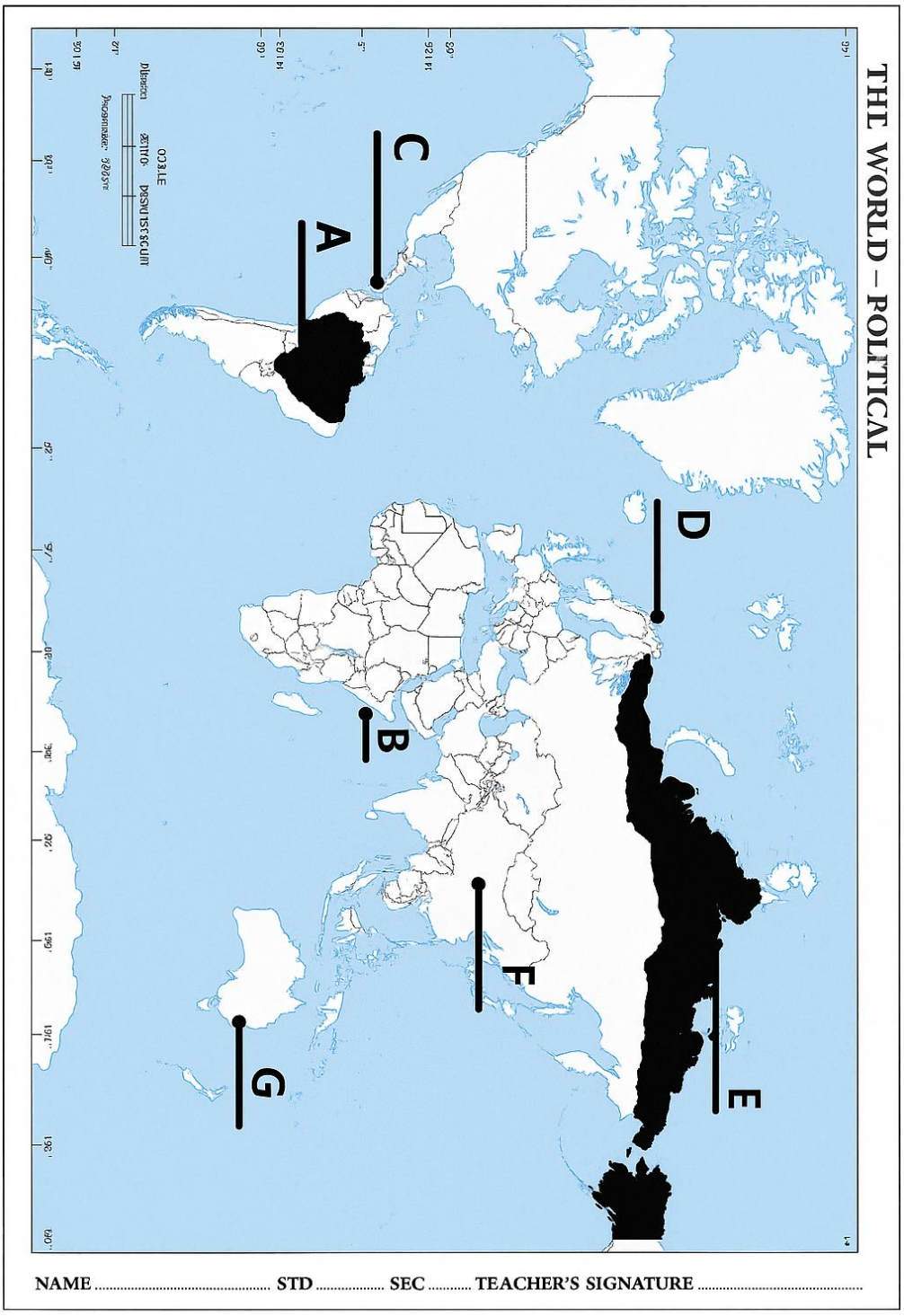
D) बैलाडीला लौह खदान

E) कोच्चि बंदरगाह

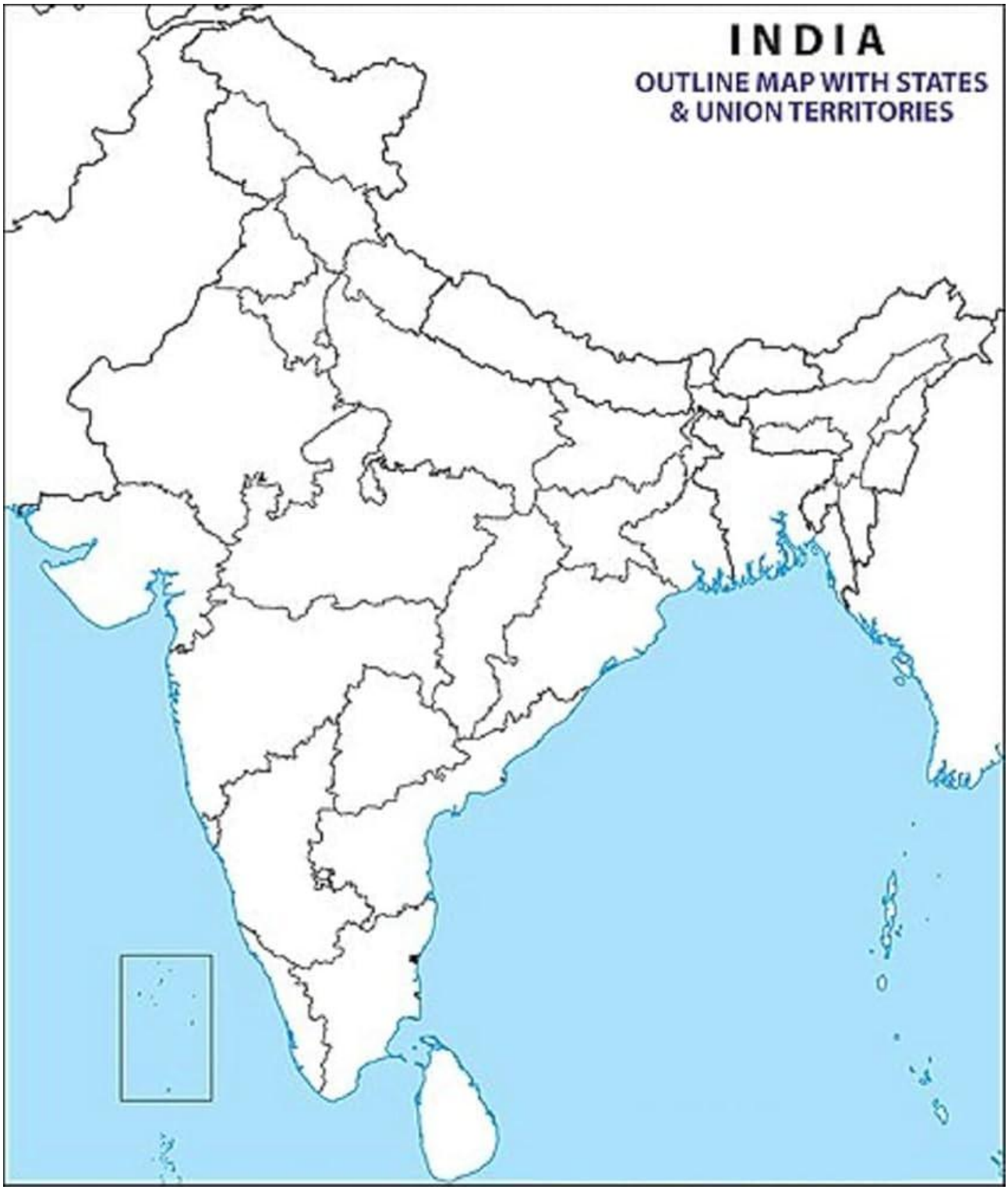
F) गुजरात में एक अंतरराष्ट्रीय हवाई अड्डा

G) मध्य प्रदेश में एक मैंगनीज खदान

Map of Q29.



Map for Q30



केन्द्रीय विद्यालय संगठन तिनसुकिया संभाग
पूर्व परिषदीय परीक्षा – 2025 -26
विषय - हिंदी (आधार) **विषय कोड(सीबीएसई):- 302**
QP CODE : QP12HIN02PB25 **कक्षा - बारहवीं**
निर्धारित समय- 3 घंटे **अधिकतम अंक- 80**

<u>सामान्य निर्देश</u>-

- निम्नलिखित निर्देशों को बहुत सावधानी से पढ़िए और उनका पालन कीजिए :-
- यह प्रश्नपत्र तीन खंडों में विभाजित है।
- खंड-क में अपठित बोध पर आधारित प्रश्न पूछे हैं। सभी प्रश्नों के उत्तर देना अनिवार्य है।
- खंड- ख में पाठ्यपुस्तक अभिव्यक्ति और माध्यम से प्रश्न पूछे गए हैं। प्रश्नों मे आंतरिक विकल्प दिए गए हैं।
- खंड-ग में पाठ्यपुस्तक आरोह तथा वितान से प्रश्न पूछे गए हैं। प्रश्नों में आंतरिक विकल्प दिए गए हैं।
- तीनों खंडों के प्रश्नों के उत्तर देना अनिवार्य है।
  यथासंभव तीनों खंडों के प्रश्नों के उत्तर क्रमशः लिखिए ।

प्रश्न संख्या	**खंड – क (अपठित बोध)**	**अंक (18)**
1.	**निम्नलिखित गद्यांश पर आधारित पूछे गए प्रश्नों के उत्तर दीजिए :-**	**(10)**
	जहाँ भी दो नदियाँ आकर मिल जाती हैं, उस स्थान को अपने देश में तीर्थ कहने का रिवाज है और यह केवल रिवाज की बात नहीं है; हम सचमुच मानते हैं कि अलग-अलग नदियों में स्नान करने से जितना पुण्य होता है, उससे कहीं अधिक पुण्य संगम स्नान में है, किंतु भारत आज जिस दौर से गुजर रहा है उसमें असली संगम वे स्थान, वे सभाएँ तथा वे मंच हैं, जिन पर एक से अधिक भाषाएँ एकत्र होती हैं। नदियों की विशेषता यह है कि वे अपनी धाराओं में अनेक जनपदों का सौरभ अनेक जनपदों के आँसू और उल्लास लिए चलती हैं और उनका पारस्परिक मिलन वास्तव में नाना जनपदों के मिलन का ही प्रतीक है। यही हाल भाषाओं का भी है। उनके भीतर भी नाना जनपदों में बसने वाली जनता के आँसू और उमंग, भाव और विचार, आशाएँ और शंकाएँ समाहित होती हैं। अतः जहाँ भाषाओं का मिलन होता है वहाँ वास्तव में, विभिन्न जनपदों के हृदय ही मिलते हैं, उनके भावों और विचारों का ही मिलन होता है तथा भिन्नताओं में छिपी हुई एकता वहाँ कुछ अधिक प्रत्यक्ष हो उठती है। इस दृष्टि से भाषाओं के संगम आज सबसे बडे तीर्थ हैं और इन तीर्थों में जो भी भारतवासी श्रद्धा से स्नान करता है, वह भारतीय एकता का सबसे बड़ा सिपाही और संत है। हमारी भाषाएँ जितनी ही तेजी से जगेंगी, हमारे विभिन्न प्रदेशों का पारस्परिक ज्ञान उतना ही बढ़ता जाएगा। भारतीय लेखकों की बहुत दिनों से यह आकांक्षा रही थी कि वे केवल अपनी ही भाषा में प्रसिद्ध होकर न रह जाएँ, बल्कि भारत की अन्य भाषाओं में भी उनके नाम पहुँचें और उनकी कृतियों की चर्चा हो। भाषाओं के जागरण के आरंभ होते ही एक प्रकार का अखिल भारतीय मंच आप से आप प्रकट होने लगा है। आज प्रत्येक भाषा के भीतर यह जानने की इच्छा उत्पन्न हो गई है कि भारत की अन्य भाषाओं में क्या हो रहा है, उनमें कौन-कौन से ऐसे लेखक हैं जिनकी कृतियाँ उल्लेखनीय हैं तथा कौन-सी विचारधारा वहाँ प्रभुसत्ता प्राप्त कर रही है।	
।	अलग-अलग प्रदेशों में आपसी ज्ञान किस प्रकार बढ़ सकता है ? (क) जब भारतीय भाषाएँ जागेंगी। (ख) जब भारत की भाषा एक होगी ।	1

	(ग) जब भाषाओं को जानने की जागरूकता होगी। (घ) इनमें से कोई नहीं	
II	निम्नलिखित कथनों पर विचार कीजिए : कथन (i) : दो नदियों का मिलन जनपदों की जागरूकता का प्रतीक है। कथन (ii) : जनपदों का मिलन दो नदियों के मिलन का प्रतीक है। कथन (iii) : जनपदों के मिलन से ही देश का विकास नहीं होता है। कथन (iv) : जनपदों की उन्नति अत्यधिक आवश्यक है **गद्यांश के अनुसार कौन-सा/से कथन सही हैं?** (क) केवल कथन (i) और (ii) सही हैं। (ख) केवल कथन (ii) सही है। (ग) केवल कथन (i), (ii) और (iii) सही हैं। (घ) केवल कथन (iii) और (iv) सही हैं।	1
III	उपर्युक्त गद्यांश के लिए उचित शीर्षक चुनें। (क) भाषा और नदी (ख) भाषा से ही देश का जागरण (ग) भाषा और देश (घ) भाषा और विकास	1
IV	भाषा संगम में भाषा की किन विशेषताओं का परिचय मिलता है ?	1
V	हम कब कह सकते हैं कि अलग-अलग प्रदेशों में आपसी ज्ञान बढ़ सकता है ?	2
VI	विभिन्न भाषाओं के लेखकों में क्या जिज्ञासा उत्पन्न हुई ?	2
VII	लेखक ने सबसे बड़ा सिपाही और संत किसको कहा है और क्यों?	2
2.	**दिए गए पद्यांश पर आधारित पूछे गए प्रश्नों के उत्तर दीजिए:-**	**(08)**
	मनमोहनी प्रकृति की जो गोद में बसा है, सुख स्वर्ग-सा जहाँ है, वह देश कौन-सा है? जिसके चरण निरंतर रत्नेश धो रहा है, जिसका मुकुट हिमालय, वह देश कौन-सा है? नदियाँ जहाँ सुधा की धारा बहा रही हैं, सींचा हुआ सलोना, वह देश कौन-सा है? जिसके बड़े रसीले, फल कंद, नाज, मेवे, सब अंग में सजे हैं, वह देश कौन-सा है? जिसके सुगंध वाले, सुंदर प्रसून प्यारे, दिन-रात हँस रहे हैं वह देश कौन-सा है? मैदान, गिरि, वनों में, हरियालियाँ महकती, आनंदमय जहाँ है, वह देश कौन-सा है? जिसके अनंत वन से धरती भरी पड़ी है, संसार का शिरोमणि, वह देश कौन-सा है, सबसे प्रथम जगत में जो सभ्य था यशस्वी, जगदीश का दुलारा, वह देश कौन-सा है?	

<table>
<tr><td>I</td><td>कवि ने अपने देश को 'जगदीश का दुलारा' क्यों कहा है?
निम्नलिखित कथनों पर विचार कीजिए:
कथन (i): यह देश सबसे प्राचीन और सभ्य था। इसलिए इसे ईश्वर का आशीर्वाद प्राप्त है।
कथन (ii) : यहाँ की नदियाँ पर्वत, वन और उपजाऊ भूमि इसे विशेष बनाते हैं ।
कथन (iii) इस देश में प्राकृतिक और सांस्कृतिक दोनों ही प्रकार की समृद्धि पाई जाती है।
कथन (iv): यह देश संसार में सबसे अधिक शक्तिशाली है।
निम्नलिखित विकल्पों पर विचार कीजिए तथा सही विकल्प चुनकर लिखिए।
(क) केवल कथन (i) सही है।
(ख) केवल कथन (ii) और (iii) सही हैं।
(ग) केवल कथन (i), (ii) और (iii) सही हैं।
(घ) केवल कथन (i) और (iii) सही हैं।</td><td>1</td></tr>
<tr><td>II</td><td>भारत के फूलों की विशेषता कौन-सी है?
(क) सुंदर और नाचने वाले (ख) सुंदर और गाने वाले
(ग) सुंदर और हँसने वाले (घ) उपर्युक्त सभी</td><td>1</td></tr>
<tr><td>III</td><td>(iii) कॉलम 1 को कॉलम-2 से सुमेलित कीजिए और सही विकल्प चुनकर लिखिए।
<table><tr><td>कॉलम-1</td><td>कॉलम-2</td></tr><tr><td>(i) सुख स्वर्ग-सा जहाँ है।</td><td>1.जहाँ भरपूर कृषि और प्राकृतिक संपदा है।</td></tr><tr><td>(ii) जगदीश का दुलारा</td><td>2. जहाँ अद्‌भुत आनंद और शांति है।</td></tr><tr><td>(iii) सब अंग में सजे हैं फल, कंद, नाज, मेवे।</td><td>3. भगवान का प्रिय और गौरवशाली देश।</td></tr></table>क) (i)-1, (ii)-2, (iii)-3
(ख) (i)-3, (ii)-1, (iii)-2
(ग) (i)-1, (ii)-3, (iii)-2
(घ) (i)-2, (ii)-3, (iii)-1</td><td>1</td></tr>
<tr><td>IV</td><td>मनमोहिनी नदी की गोद में कौन-सा देश बसा हुआ है और उसका पद प्रक्षालन कौन कर रहा होता है?</td><td>1</td></tr>
<tr><td>V</td><td>भारत की नदियों की क्या विशेषता है?</td><td>2</td></tr>
<tr><td>VI</td><td>भारत की सभ्यता को कवि ने क्यों सर्वश्रेष्ठ बताया है?</td><td>2</td></tr>
<tr><td>प्रश्न संख्या</td><td>खंड-ख (अभिव्यक्ति और माध्यम पुस्तक पर आधारित प्रश्न)</td><td>अंक (22)</td></tr>
<tr><td>3.</td><td>निम्नलिखित दिए गए विषयों में से किसी एक विषय पर लगभग 120 शब्दों में रचनात्मक लेख लिखिए –</td><td>01x06=6</td></tr>
<tr><td></td><td>• प्रकृति से दूर होता हमारा जीवन
• आबादी का असंतुलन
• मेरे जीवन की अविस्मरणीय घटना</td><td></td></tr>
<tr><td>4.</td><td>निम्नलिखित प्रश्नों को ध्यानपूर्वक पढ़कर किन्हीं चार प्रश्नों के लगभग 40 शब्दों में उत्तर दीजिए :-</td><td>04 x02 =08</td></tr>
<tr><td>(क)</td><td>इंटरनेट पत्रकारिता से आप क्या समझते हैं ?</td><td>2</td></tr>
<tr><td>(ख)</td><td>स्तम्भ लेखन से क्या अभिप्राय है ?</td><td>2</td></tr>
<tr><td>(ग)</td><td>फ्रीलांस पत्रकारिता से आप क्या समझते हैं?</td><td>2</td></tr>
</table>

(घ)	कहानी का नाट्य रूपांतरण करते समय दृश्यों को कैसे बाँटा जाता है ?	**2**
(ङ)	रेडियो नाटक में कौन-कौन से तत्व होते हैं ?	**2**
5.	**निम्नलिखित प्रश्नों को ध्यानपूर्वक पढ़कर किन्हीं दो प्रश्नों के लगभग 80 शब्दों में उत्तर दीजिए :-**	**02x04= 08**
(क)	जनसंचार के प्रमुख साधन कौन-कौन से हैं? आपको इनमें सबसे अच्छा कौन-सा साधन लगता है और क्यों ?	**4**
(ख)	समाचार लेखन के छः ह ककारों को स्पष्ट कीजिए ।	**4**
(ग)	फीचर लेखन व समाचार लेखन में अंतर स्पष्ट करें ।	**4**
प्रश्न सं.	**खंड- ग (पाठ्यपुस्तक आरोह तथा वितान पर आधारित प्रश्न)**	**अंक (40)**
6.	**निम्नलिखित काव्यांश पर आधारित पूछे गए प्रश्नों के सर्वाधिक उपयुक्त उत्तर वाले विकल्प चुनकर लिखिए :-**	**05x01= 05**
	खेती न किसान को, भिखारी न भीख, बलि, बनिक को बनिज, न चाकर को चाकरी। बेदहूँ पुरान कही, लोकहूँ बिलोकिअत, साँकरे सबै पै, राम ! रावरे कृपा करी। जीविका बिहीन लोग सीद्यमान सोच बस, कहें एक एकन सौं कहाँ जाइ, का करी ? दारिद-दसानन दबाई दुनी दीनबंधु ! दुरित-दहन देखि तुलसी हहा करी ॥	
I	'कहें एक एकन सौं कहाँ जाइ, का करी' - पंक्ति के अनुसार दिए गए कथनों पर विचार करते हुए सही कथन को चयनित कर लिखिए- (क) लोग नए अवसरों की तलाश में नहीं हैं। (ख) लोग निराश होकर नहीं जानते कि क्या करें। (ग) लोग यात्रा पर जा रहे हैं। (घ) समाज उन्नति कर रहा है।	1
II	इस काव्यांश में तत्कालीन समाज की किस समस्या का चित्रण हुआ है? (क) निठल्लेपन की (ख) बेरोजगारी की (ग) अशिक्षा की (घ) शोषण की	1
III	कवि ने समाज की स्थिति को सुधारने के लिए किससे प्रार्थना की है। (क) राजा से (ख) वेदों से (ग) जनता से (घ) भगवान राम से	1
IV	निम्नलिखित कथन और कारण को ध्यानपूर्वक पढ़िए और सही विकल्प चुनकर लिखिए। **कथन (A) : समाज में गरीबी व्याप्त है।** **कारण (R) : व्यक्ति जीविका से विहीन है।** (क) कथन (A) सही है, कारण (R) गलत है। (ख) कथन (A) सही नहीं है, कारण (R) सही है। (ग)कथन (A) तथा कारण (R) दोनों सही हैं, किंतु कारण (R) उसकी सही व्याख्या नहीं करता। (घ) कथन (A) तथा कारण (R) दोनों सही हैं, कारण (R) कथन (A) की सही व्याख्या करता है।	1

V	कवि ने किन लोगों की दुर्दशा का वर्णन किया है? (क) किसानों की (ख) व्यापारियों की (ग) भिखारियों की (घ) उपर्युक्त सभी	1
7.	**निम्नलिखित प्रश्नों को ध्यानपूर्वक पढ़कर किन्हीं दो प्रश्नों के लगभग 60 शब्दों में उत्तर दीजिए:-**	**02x03= 06**
I	फ़िराक गोरखपुरी की रुबाइयों से उभरने वाले वात्सल्य के किन्हीं दो चित्रों को अपने शब्दों में चित्रित कीजिए ।	3
II	'बादल राग' कविता में कवि ने अट्टालिका को 'आतंक-भवन' क्यों कहा है?	3
III	'कविता के बहाने' पाठ के संदर्भ में 'बिना मुरझाए महकने के माने' क्या होते हैं ?	3
8.	**निम्नलिखित प्रश्नों को ध्यानपूर्वक पढ़कर किन्हीं दो प्रश्नों के लगभग 40 शब्दों में उत्तर दीजिए :-**	**02x02= 04**
I	'जन्म से ही वे अपने साथ लाते हैं कपास'-'पतंग' कविता के आधार पर स्पष्ट कीजिए कि कवि ने ऐसा किसके लिए और क्यों कहा है?	2
II	'शीतल वाणी में आग'- के होने का क्या आशय है ?-'आत्म परिचय' पाठ के आधार पर बताएँ।	2
III	'उषा' कविता में भोर के नभ की तुलना किससे की गई है ? और क्यों ?	2
9.	**निम्नलिखित गद्यांश पर आधारित पूछे गए प्रश्नों के सर्वाधिक उपयुक्त उत्तर वाले विकल्प चुनकर लिखिए :-**	**05x01= 05**
	यह विडंबना की ही बात है कि इस युग में भी 'जातिवाद' के पोषकों की कमी नहीं है। इसके पोषक कई आधारों पर इसका समर्थन करते हैं | समर्थन का एक आधार यह कहा जाता है कि आधुनिक सभ्य समाज 'कार्य-कुशलता' के लिए श्रम विभाजन को आवश्यक मानता है और चूँकि जाति प्रथा भी श्रम विभाजन का ही दूसरा रूप है इसलिए इसमें कोई बुराई नहीं है । इस तर्क के संबंध में पहली बात तो यही आपत्तिजनक है कि जाति प्रथा श्रम विभाजन के साथ-साथ श्रमिक-विभाजन का भी रूप लिए हुए है। श्रम विभाजन, निश्चय ही सभ्य समाज की आवश्यकता है, परंतु किसी भी सभ्य समाज में श्रम विभाजन व्यवस्था श्रमिकों का विभिन्न वर्गों में अस्वाभाविक विभाजन नहीं करती। भारत की जाति प्रथा की एक और विशेषता है कि यह श्रमिकों का अस्वाभाविक विभाजन ही नहीं करती, बल्कि विभाजित विभिन्न वर्गों को एक-दूसरे की अपेक्षा ऊँच-नीच भी करार देती है. जो कि विश्व के किसी भी समाज में नहीं पाया जाता।	
I	**भारत की जाति प्रथा क्या करती है**? (**क**) **श्रमिकों का अस्वाभाविक विभाजन करती है।** (**ख**) समानता स्थापित करती है। (**ग**) समाज को सभ्य करती है। (**घ**) श्रमिकों का स्वाभाविक विभाजन करती है।	1
II	आधुनिक सभ्य समाज किस प्रकार के विभाजन को आवश्यक मानता है? (क) श्रमिक-विभाजन (ख) श्रम-विभाजन (ग) जाति-विभाजन (घ) वर्ग-विभाजन	1

<table>
<tr><td>III</td><td>निम्नलिखित कथनों पर विचार करते हुए गद्यांश के अनुसार सही कथन को चयनित कर लिखिए-
(क) जाति-प्रथा केवल श्रम-विभाजन का एक रूप है।
(ख) सभ्य समाज में श्रम-विभाजन कार्य-कुशलता बढ़ाने के लिए किया जाता है।
(ग) जाति-प्रथा श्रमिकों का अस्वाभाविक विभाजन नहीं करती है।
(घ) जाति-प्रथा और श्रम-विभाजन एक ही चीज़ है।</td><td>1</td></tr>
<tr><td>IV</td><td>कॉलम-1 को कॉलम-2 से सुमेलित कीजिए और सही विकल्प चुनकर लिखिए।<table><tr><th>कॉलम-1</th><th>कॉलम-2</th></tr><tr><td>i अस्वाभाविक</td><td>1. अनुचित</td></tr><tr><td>ii विभाजन</td><td>2. बाँटना</td></tr><tr><td>iii सभ्य समाज</td><td>3. विकसित और शिक्षित समाज</td></tr></table>क) i-(1), ii-(2), iii-(3)
(ख) i-(3), ii-(2), iii-(1)
(ग) i-(3), ii-(1), iii-(2)
(घ) i-(2), ii-(3), iii-(1)</td><td>1</td></tr>
<tr><td>V</td><td>जाति प्रथा के समर्थन का प्रचलित आधार क्या है?
(क) आर्थिक समृद्धि (ख) बौद्धिक कुशलता
(ग) कार्य कुशलता (घ) श्रम की क्षमता</td><td>1</td></tr>
<tr><td>10.</td><td>निम्नलिखित प्रश्नों को ध्यानपूर्वक पढ़कर किन्हीं दो प्रश्नों के लगभग 60 शब्दों में उत्तर दीजिए:-</td><td>02x03= 06</td></tr>
<tr><td>I</td><td>'काले मेघा पानी दे' पाठ के आधार पर त्याग और ज्ञान की महिमा पर प्रकाश डालिए।</td><td>3</td></tr>
<tr><td>II</td><td>'भक्तिन' पाठ के आधार पर भक्तिन की चारित्रिक विशेषताओं पर प्रकाश डालिए ।</td><td>3</td></tr>
<tr><td>III</td><td>भीमराव अंबेडकर के मत में दासता की व्यापक परिभाषा क्या है?</td><td>3</td></tr>
<tr><td>11.</td><td>निम्नलिखित प्रश्नों को ध्यानपूर्वक पढ़कर किन्हीं दो प्रश्नों के लगभग 40 शब्दों में उत्तर दीजिए:-</td><td>02x02= 04</td></tr>
<tr><td>I</td><td>बाज़ार का जादू चढ़ने और उतरने पर मनुष्य पर क्या असर पड़ता है ? 'बाज़ार दर्शन' पाठ के आधार पर स्पष्ट कीजिए।</td><td>2</td></tr>
<tr><td>II</td><td>लेखक इन्दर सेना पर पानी फेंकने का समर्थक क्यों नहीं था ? 'काले मेघा पानी दे' पाठ के आधार पर स्पष्ट करें ।</td><td>2</td></tr>
<tr><td>III</td><td>महामारी फैलने के बाद गाँव में सूर्योदय और सूर्यास्त के दृश्य में क्या अंतर होता था ?</td><td>2</td></tr>
<tr><td>12.</td><td>निम्नलिखित प्रश्नों को ध्यानपूर्वक पढ़कर किन्हीं दो प्रश्नों के लगभग 100 शब्दों में उत्तर दीजिए:-</td><td>02x05= 10</td></tr>
<tr><td>I</td><td>लेखक आनंद यादव के चरित्र की कोई चार विशेषताएँ जो आपको सर्वाधिक प्रभावित करती हैं-'जूझ' पाठ के आधार पर लिखिए।</td><td>5</td></tr>
<tr><td>II</td><td>कैसे कहा जा सकता है कि सिंधु घाटी की सभ्यता साधन सम्पन्न थी ? 'अतीत में दबे पाँव' पाठ के आधार पर उदाहरण सहित स्पष्ट करें ।</td><td>5</td></tr>
<tr><td>III</td><td>यशोधर बाबू समय के अनुसार क्यों नहीं ढल सके? 'सिल्वर वेडिंग' पाठ के आधार पर स्पष्ट कीजिए ।</td><td>5</td></tr>
</table>

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केन्द्रीय विद्यालय संगठन, तिनसुकिया क्षेत्र
प्री-बोर्ड परीक्षा 2025-26
विषय: इतिहास (027)
कक्षा: बारहवीं
क्यूपी12एचआईएस02पीबी25

अधिकतम अंक: 80 **समय: 3 घंटे**

सामान्य निर्देश:

1) प्रश्नपत्र में पाँच खंड हैं - A, B, C, D और E। प्रश्नपत्र में 34 प्रश्न हैं। सभी प्रश्न अनिवार्य हैं।
2) खंड A – प्रश्न 1 से 21 प्रत्येक 1 अंक के MCQ हैं।
3) खंड 'ब' - प्रश्न संख्या 22 से 27 लघु उत्तरीय प्रश्न हैं, जिनमें से प्रत्येक के लिए 3 अंक निर्धारित हैं। प्रत्येक प्रश्न का उत्तर 60-80 शब्दों से अधिक नहीं होना चाहिए।
4) खंड C - प्रश्न संख्या 28 से 30 दीर्घ उत्तरीय प्रश्न हैं, जिनमें से प्रत्येक 8 अंक का है। प्रत्येक प्रश्न का उत्तर 300-350 शब्दों से अधिक नहीं होना चाहिए।
5) खंड डी - प्रश्न संख्या 31 से 33 स्रोत आधारित प्रश्न हैं जिनमें तीन उप-प्रश्न हैं और प्रत्येक 4 अंक का है
6) खंड-E - प्रश्न संख्या 34 मानचित्र आधारित है, जिसके 5 अंक हैं और इसमें महत्वपूर्ण परीक्षा वस्तुओं की पहचान और स्थान निर्धारण शामिल है। मानचित्र को उत्तर पुस्तिका के साथ संलग्न करें।
7) प्रश्नपत्र में कोई समग्र विकल्प नहीं है। हालाँकि, कुछ प्रश्नों में आंतरिक विकल्प दिए गए हैं। ऐसे प्रश्नों में से केवल एक विकल्प का ही उत्तर देना होगा।
8) इसके अतिरिक्त, जहां भी आवश्यक हो, प्रत्येक अनुभाग और प्रश्न के साथ अलग-अलग निर्देश दिए गए हैं।

खंड A (1x21=21)

1. 'द ग्रेट बाथ' और 'द ग्रेट ग्रैनरी' किस स्थल से संबंधित हैं
(A) कालीबंगा (B) हड़प्पा
(C) मोहनजोदड़ो (D) लोथल

2. निम्नलिखित कथनों पर विचार करें और गलत कथन का चयन करें।
(A) सिंधु घाटी सभ्यता को हड़प्पा संस्कृति भी कहा जाता है।
(B) हड़प्पावासी केवल विभिन्न प्रकार के पौधे खाते थे।
शोर्तुघाई स्थल पर नहरों के निशान पाए गए हैं ।
धोलावीरा में एक जलाशय पाया गया ।

3.रिक्त स्थान भरें:-
संगम .....भाषा का साहित्य है।
(A) तमिल (B) मलयालम
(C) संस्कृत (D) उपरोक्त में से कोई नहीं

4 ***अर्थशास्त्र*** **के लेखक कौन थे ?**
A.अशोक
B.मेगास्थनीज
C.कौटिल्य
D. बाणभट्ट

5. …… वे महिलाएं थीं जिन्होंने संघ में प्रवेश किया और धम्म की शिक्षिका बनीं और मोक्ष प्राप्त किया।
(A) बोधिसत्व (B) भिक्षुणियाँ (सी) थेरिस (डी) नन

6. निम्नलिखित कथनों पर विचार करें:
1. प्रत्येक गोत्र का नाम वैदिक ऋषि के नाम पर रखा गया था।
2.महिलाओं से अपेक्षा की जाती थी कि वे विवाह के बाद अपने पिता का गोत्र त्याग कर अपने पति का गोत्र अपना लें।
3. वर्णों की संख्या चार थी।

4. जातियों की संख्या निश्चित थी और यह व्यवसाय पर आधारित थी।
सही कथन चुनें:-
(A) 1,3 और 4 (B) 1,2 और 3 (C) 1 और 2 (D) 2,3 और 4

7. किस बौद्ध ग्रंथ के अनुसार अशोक ने बुद्ध के अवशेषों के कुछ हिस्सों को हर महत्वपूर्ण शहर में वितरित किया और उन पर स्तूपों के निर्माण का आदेश दिया?
(A) अशोकवदन (बी) सुत्त पिटक
(सी) महापरिनिब्बान सुत्त (डी) वेसंतरा जातक

8. दी गई जानकारी से चरित्र की पहचान करें: -
अकबर के अधीन भूमि राजस्व प्रणालियों के प्रकारों का वर्णन करने वाले सही समूह की पहचान करें।
A.जमींदारी , जागीरदारी, महलवाड़ी
B.रयोतवारी, इक्ता, सूफीवारी
C.ज़ब्ती, नासाक, कंकुट
D. बारिद, नायब, मुकद्दम

9. निम्नलिखित का मिलान करें:-
(i) जीन-बैप्टिस्ट टैवर्नियर (क) इंग्लैंड
(ii) एंटोनियो मोनसेरेट (बी) पुर्तगाल
(iii) डुआर्टे बारबोसा (c) फ्रांस
(iv) पीटर मुंडी (घ) स्पेन
(ए) i - b, ii - c, iii - a, iv - d (B) i - c, ii - a, iii - b, iv - d
(सी) i - c, ii - d, iii - b, iv - a (D) i - d, ii - a, iii - b, iv - c

10. सूफी परंपरा के बारे में निम्नलिखित कथनों पर विचार करें।
1.निज़ामुद्दीन औलिया के शिष्य उन्हें सुल्तान-उल- मशाइख कहकर संबोधित करते थे ।
2. सुल्तानों ने धर्मशालाओं के लिए दान स्वरूप धर्मार्थ ट्रस्ट स्थापित किए तथा कर-मुक्त भूमि प्रदान की।
3.सुहरवर्दी सूफी सिलसिला भारत में मुगल काल के दौरान विकसित हुआ ।
4. सूफी शरिया की व्याख्या के लिए न्यायविदों पर निर्भर नहीं थे।
दिए गए कथनों में से कौन सा/से सही है/हैं?
(ए) 1, 3, 4 (बी) 1, 2, 4 (सी) 1, 2, 3, 4 (डी) 1,2, 3

11. वाक्य पूरा करें:-
मुगल काल में निम्नलिखित में से कौन सी फसल वाणिज्यिक फसल मानी जाती थी?
A. चावल B. गेहूं C. कपास D. जौ
12. नीचे दो कथन दिए गए हैं, एक को अभिकथन (A) और दूसरे को कारण (R) कहा गया है।
सही विकल्प चुनें.
विजयनगर किलेबंदी की सबसे महत्वपूर्ण विशेषता कृषि क्षेत्रों का इसमें समावेश था।
कारण (R): शासक घेराबंदी और उसके परिणामों का सामना करने के लिए अच्छी तरह तैयार थे।
(A) A और R दोनों सत्य हैं और R, A की सही व्याख्या है।
(B) A और R दोनों सत्य हैं लेकिन R, A का सही स्पष्टीकरण नहीं है।
(C) A सत्य है लेकिन R असत्य है।
(D) A गलत है लेकिन R सही है।

13. निम्नलिखित में से कौन सा मंदिर केवल विजयनगर शासकों और उनके परिवारो□ द्वारा उपयोग किया जाता था?
(A) विठ्ठल मंदिर (B) विरुपाक्ष मंदिर
(C) रघुनाथ मंदिर. (D) हजारा राम मंदिर

14. गाँव के मुखिया को क्या कहा जाता था?
(A) मुकद्दम (B) असरी (सी) मुज़ेरियन (D) रियाया

15. आकृति को देखिए और चित्र पहचानिए-



(ए) गूनू (बी) सिधू माझी (सी) बिरसा मुंडा (डी) शिवरामकृष्णन

16. निम्नलिखित का मिलान करें : -

सूची -I	सूची द्वितीय
I. स्मृति में	(a) थॉमस जोन्स
II. लखनऊ की राहत	(b) जोसेफ नोएल
III. प्रथम स्वतंत्रता संग्राम	(c) सुभद्रा कुमारी
IV. खूब लाडी मर्दानी	(घ) वीर सावरकर

विकल्प:-

(I) (II) (III) (IV)
(ए) (बी) (सी) (डी) (ए)
(बी) (सी) (डी) (बी) (ए)
(सी) (बी) (ए) (घ) (ग)
(डी) (बी) (सी) (ए) (डी)

17. नीचे दो कथन दिए गए हैं, एक को अभिकथन (A) और दूसरे को कारण (R) कहा गया है।
सही विकल्प चुनें.
अभिकथन (A): अवध को "बंगाल सेना का नर्सरी" कहा जाता था।
कारण (R): बंगाल सेना के अधिकांश सिपाही अवध और पूर्वी उत्तर प्रदेश के गांवों से भर्ती किए गए थे।
(A) A और R दोनों सत्य हैं और R, A की सही व्याख्या है।
(B) A और R दोनों सत्य हैं लेकिन R, A का सही स्पष्टीकरण नहीं है।
(C) A सत्य है लेकिन R असत्य है।
(D) A गलत है लेकिन R सत्य है।

18. संविधान तैयार करने में किन दो सिविल सेवकों ने महत्वपूर्ण सहायता दी?
(ए) बीएन राऊ और एसएन मुखर्जी
(बी) सोमनाथ लाहिड़ी और जीबी पंत (सी) टीए रामलिंगम चेट्टियार और आरवी धुलेकर (डी) सुश्री जी दुर्गाबाई और के संथानम

19. निम्नलिखित में से एक भारतीय संविधान सभा का सदस्य नहीं था:-
(ए) आरवी धुलेकर (बी) महात्मा गांधी (सी) जयपाल सिंह (डी) जे नागप्पा

20. गांधीजी के राजनीतिक गुरु कौन थे?
(ए) बाल गंगाधर तिलक (बी) गोपाल कृष्ण गोखले
(C) महादेव गोविंद रानाडे (D) रवींद्रनाथ टैगोर

21. निम्नलिखित घटनाओं पर विचार करें:

1. चंपारण आंदोलन
2. खेड़ा आंदोलन
3. रॉलेट सत्याग्रह
4. सविनय अवज्ञा आंदोलन
इन घटनाओं का सही कालानुक्रमिक क्रम इस प्रकार है:
(ए) 1,3,2,4 (बी) 2,1,3,4 (सी) 1,2,3,4 (डी) 3,4,2,1

खंड बी
लघु उत्तरीय प्रश्न 3X6=18

22. लगभग 600 ईसा पूर्व से 600 ईसवी के दौरान ब्राह्मणीय नुस्खे के अनुसार विवाह के नियमों का वर्णन करें।
या
रिश्तेदारी और वर्ण व्यवस्था के आदर्श व्यवसायों के बारे में ब्राह्मणवादी सिद्धांत का वर्णन करें।

23. "बुद्ध ने सही आचरण और मूल्यों पर ज़ोर दिया।" उपरोक्त संदेश के आलोक में, उनके जीवन-संबंधी उपदेशों की व्याख्या कीजिए।

24. "इब्न बतूता ने दिल्ली को रोमांचक अवसरों से भरा शहर पाया।" अपने उत्तर को उसके द्वारा दिए गए प्रमाणों से पुष्ट कीजिए।

25. 'सीमाओं के बावजूद, आइन- ए -अकबरी अपने समय का एक असाधारण दस्तावेज बना हुआ है' कथन की व्याख्या करें।
26. ईस्ट इंडिया कंपनी के प्रशासन और गतिविधियों पर ब्रिटिश संसद को प्रस्तुत पांचवीं रिपोर्ट के मुख्य पहलुओं का मूल्यांकन करें।

27. "भारत की संविधान सभा में भाषा के मुद्दे पर गहन बहस हुई थी।" इस मुद्दे पर सभा के सदस्यों द्वारा प्रस्तुत विचारों का परीक्षण कीजिए।

या

संविधान सभा के भीतर हुई चर्चाएँ भी जनता द्वारा व्यक्त की गई राय से प्रभावित थीं।" कथन का परीक्षण कीजिए।

खंड सी
दीर्घ उत्तरीय प्रश्न 8X3=24

28. अतीत की खुदाई करते समय पुरातत्वविदों के सामने आने वाली समस्याओं की व्याख्या कीजिए ।

या

बनाने के लिए हड़प्पावासियों द्वारा प्रयुक्त कच्चे माल और तकनीकों का वर्णन कीजिए । उन्होंने इसके लिए कच्चा माल कैसे प्राप्त किया होगा?

29- भारत के मध्यकालीन धार्मिक और सामाजिक पहलू की दिशा बदल दी ।" उपरोक्त कथन के आलोक में भक्ति आंदोलन की प्रमुख विशेषताओं पर प्रकाश डालिए।

या

निज़ामुद्दीन औलिया के विशेष उदाहरण के साथ , सूफी संतों के खानखाना में मुरीदों द्वारा की जाने वाली विभिन्न गतिविधियों का विश्लेषण करें ।

30. **"महात्मा गांधी के आगमन ने भारतीय राष्ट्रवाद की प्रकृति को पूरी तरह बदल दिया।"** उनके संघर्ष के तरीकों के संदर्भ में इस कथन की व्याख्या कीजिए।

या

असहयोग आंदोलन के कारणों और महत्व पर चर्चा करें। इसने भारत के इतिहास में किस प्रकार महत्वपूर्ण भूमिका निभाई?
भारत के स्वतंत्रता संग्राम में कौन सा नया चरण शुरू हुआ?

खंड डी
स्रोत आधारित प्रश्न 4x3=12

31. **निम्नलिखित स्रोत को ध्यानपूर्वक पढ़ें और नीचे दिए गए प्रश्नों के उत्तर दें:**
असाधारण समय में साधारण जीवन

विद्रोह के महीनों में शहरों में क्या हुआ? उन उथल-पुथल भरे महीनों में लोगों ने कैसे जीवन जिया? सामान्य जीवन पर इसका क्या असर पड़ा? विभिन्न शहरों से प्राप्त रिपोर्टें हमें दिनचर्या के अस्त-व्यस्त होने के बारे में बताती हैं। दिल्ली उर्दू अख़बार, 14 जून 1857 की ये रिपोर्टें पढ़ें:
सब्ज़ियों और साग (पालक) के लिए भी यही बात सच है। लोगों की शिकायत है कि बाज़ारों में कद्दू और बैंगन तक नहीं मिलते। आलू और अरवी (रतालू) अगर मिलते भी हैं तो बासी और सड़े हुए, दूरदर्शी कुंजड़ों (सब्ज़ी उगाने वालों) द्वारा पहले से जमा करके रखे हुए। शहर के बाग़ों से, कुछ उपज कुछ जगहों तक पहुँचती भी है, लेकिन ग़रीब और मध्यम वर्ग बस मुँह बाए देखता रह जाता है (क्योंकि वे चुनिंदा लोगों के लिए ही होते हैं)।
एक और बात जिस पर ध्यान देने की ज़रूरत है, जिससे लोगों को बहुत नुक़सान हो रहा है, वह यह कि पानी ढोने वालों ने पानी भरना बंद कर दिया है। बेचारे सरफेस (सज्जन) कंधों पर बाल्टी में पानी ढोते नज़र आते हैं, तब जाकर घर के ज़रूरी काम, जैसे खाना बनाना वगैरह, हो पाते हैं। हलालखोर हरामखोर हो गए हैं , कई मोहल्लों में कई-कई दिनों से कमाई नहीं हो पा रही है और अगर यही हाल रहा तो सड़ांध, मौत और बीमारी मिलकर शहर की हवा खराब कर देंगे और पूरे शहर में, यहाँ तक कि आस-पास के इलाकों में भी महामारी फैल जाएगी।

31.1 यह रिपोर्ट कहां से ली गई है?

31.2 शहरों का सामान्य जीवन किस प्रकार प्रभावित हुआ?

31.3 शहरों में सब्जी आपूर्ति की स्थिति क्या थी? 2

32. **निम्नलिखित स्रोत को ध्यानपूर्वक पढ़ें और नीचे दिए गए प्रश्नों के उत्तर दें:**

एक विशाल शहरयह डोमिंगो पेस के विजयनगर के वर्णन का एक अंश है : मैं यहां इस शहर के आकार के बारे में नहीं लिख रहा हूं, क्योंकि इसे किसी एक स्थान से पूरा नहीं देखा जा सकता है, लेकिन मैं एक पहाड़ी पर चढ़ गया जहां से मैं इसका एक बड़ा हिस्सा देख सकता था, मैं इसे पूरा नहीं देख सका क्योंकि यह कई पहाड़ियों की श्रृंखलाओं के बीच स्थित है। वहां से जो मैंने देखा वह मुझे रोम जितना बड़ा और देखने में बहुत सुंदर लगा, इसके भीतर, घरों के बगीचों में पेड़ों के कई उपवन हैं, और पानी की कई नालियां हैं जो इसके बीच में बहती हैं, और कुछ स्थानों पर झीलें हैं, और राजा के महल के पास एक ताड़ का उपवन और अन्य फलदार पेड़ हैं।

(32.i) इस अंश के लेखक कौन हैं ? 1
(32.ii) लेखक ने विजयनगर के आकार के बारे में क्यों नहीं लिखा ?
(32.iii) विजयनगर के वर्णन की कोई तीन विशेषताएँ लिखिए । 2

33. **निम्नलिखित अंश को ध्यानपूर्वक पढ़ें और निम्नलिखित प्रश्नों के उत्तर दें:**

<u>प्रयाग प्रशस्ति का एक अंश है :</u>

वह पृथ्वी पर किसी से शत्रुता नहीं रखता; उसने सैकड़ों अच्छे कर्मों से सुशोभित अनेक गुणों के समूह के द्वारा अपने पैरों के तलवों से अन्य राजाओं की कीर्ति क□ मिटा दिया है; वह पुरुष है, सज्जनों की उन्नति और दुष्टों के विनाश का कारण होने के कारण वह अज्ञेय है; वह ऐसा है जिसका कोमल हृदय केवल भक्ति और विनम्रता से ही वश में किया जा सकता है; वह दयावान है; वह लाखों गौओं का दाता है; उसका मन दीन-दुखी, दरिद्र, निराश और पीड़ितों के उद्धार के लिए अनुष्ठानिक दीक्षा प्राप्त कर चुका है; वह मनुष्यों के प्रति तेजस्वी और साक्षात् दयावान है; वह धन के देवता कुबेर, समुद्र के देवता वरुण, वर्षा के देवता इंद्र और मृत्यु के देवता यम के बराबर है...

33.1 पृथ्वी पर उसका कोई विरोधी नहीं था; वह अपने अनेक सद्गुणों के समूह से सुशोभित था। दिए गए अंश में वह कौन था? 1

33.2 यह प्रयाग प्रशस्ति किसके द्वारा रचित है? 1

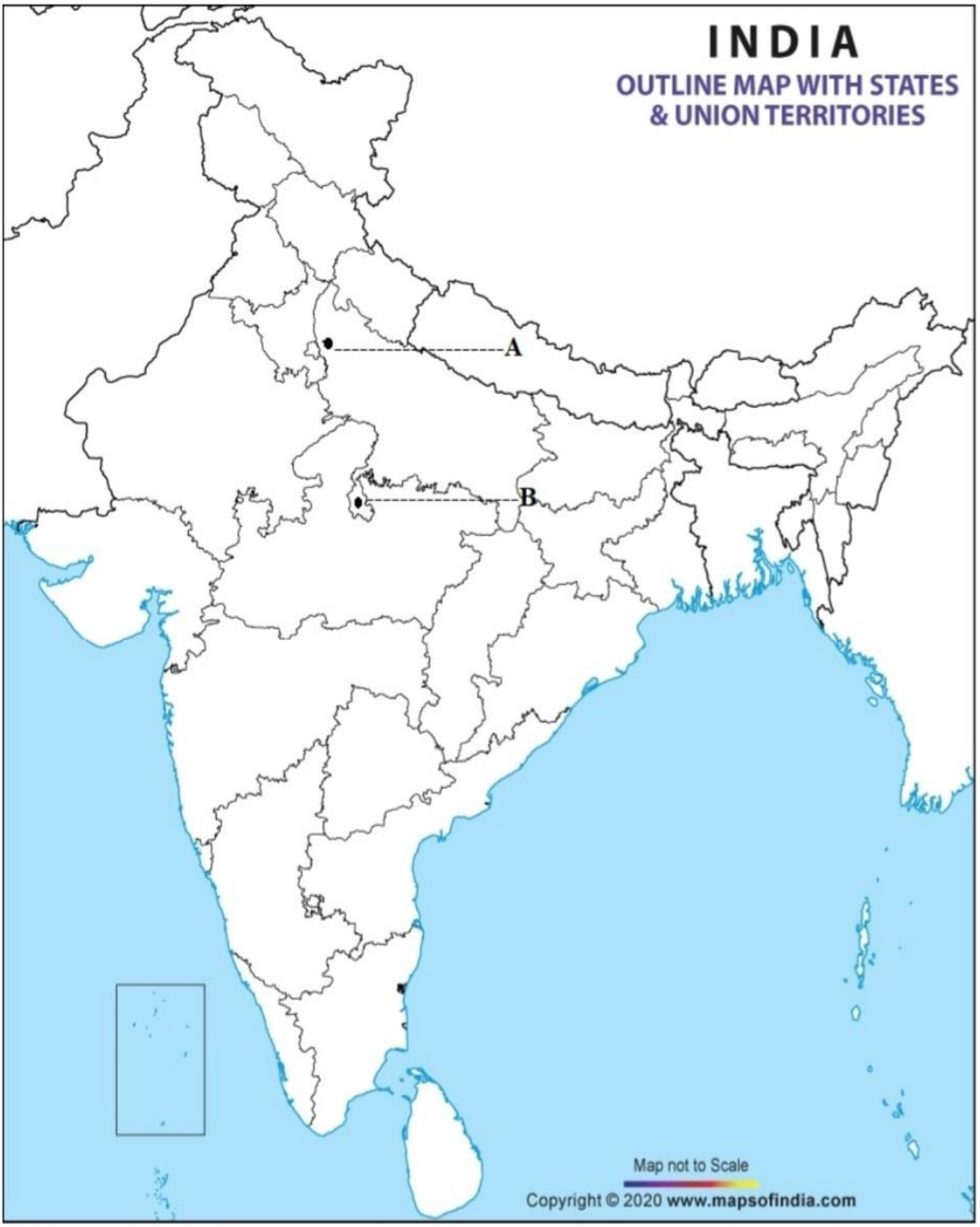
33.3 इस अंश में उल्लेख है कि वह देवताओं के बराबर है …….. यह राजत्व के किस तत्व को दर्शाता है? 2

<u>खंड ई</u>
<u>मानचित्र आधारित प्रश्न 1X5=5</u>

34.1 भारत के दिए गए राजनीतिक मानचित्र पर निम्नलिखित को उपयुक्त प्रतीकों से चिह्नित करें और नामांकित करें:
I) इंद्रप्रस्थ

II) बोधगया, एक प्रमुख बौद्ध स्थल
III) बीजापुर
या
गोलकुंडा, दक्कन सल्तनत

34.2 इसी रेखा मानचित्र पर 1857 के विद्रोह से संबंधित दो स्थानो□ को A और B से चिह्नित किया गया है। उन्हें पहचानिए और उनके पास खींची गई रेखाओं पर उनके सही नाम लिखिए।


INDIA
OUTLINE MAP WITH STATES
& UNION TERRITORIES
A
B
Map not to Scale
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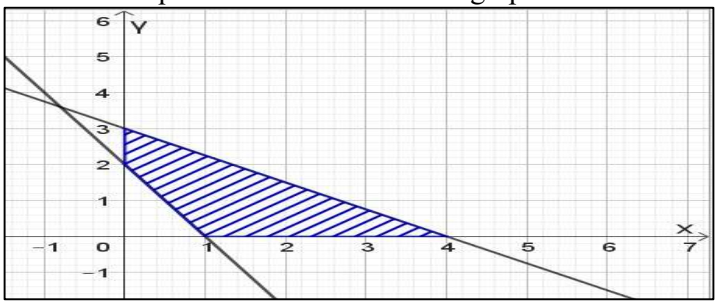
KENDRIYA VIDYALAYA SANGATHAN TINSUKIA REGION
PRE-BOARDS EXAMINATION 2025-26
CLASS: XII
SUBJECT: Mathematics (041)

Time : 3 hours **Maximum Marks : 80**

General Instructions:

1. This Question paper contains 38 questions. All questions are compulsory.
2. This Question paper is divided into five Sections - A, B, C, D and E.
3. In Section A, Questions no. 1 to 18 are Multiple Choice Questions (MCQs) with only one correct option and Questions no. 19 and 20 are Assertion-Reason based questions of 1 mark each.
4. In Section B, Questions no. 21 to 25 are Very Short Answer (VSA)-type questions, carrying 2 marks each.
5. In Section C, Questions no. 26 to 31 are Short Answer (SA)-type questions, carrying 3 marks each.
6. In Section D, Questions no. 32 to 35 are Long Answer (LA)-type questions, carrying 5 marks each.
7. In Section E, Questions no. 36 to 38 are Case Study-Based questions, carrying 4 marks each.

	Section – A (Multiple Choice Question)	
1.	If $\sec^{-1}x = \operatorname{cosec}^{-1}y$, then $\{\cos^{-1}(\frac{1}{x}) + \cos^{-1}(\frac{1}{y})\} = ?$ (A) 0 (B) 1 (C) $\pi/2$ (D) none of these.	1
2.	If for three matrices $A = [a_{ij}]_{m\times 3}$, $B = [b_{ij}]_{n\times 4}$ and $C = [c_{ij}]_{p\times q}$ products AB and AC both are defined and are square matrices of same order, then value of m, n, p and q are: (A) $m = q = 3$ and $n = p = 4$ (B) $m = 2$, $q = 3$ and $n = p = 4$ (C) $m = q = 4$ and $n = p = 3$ (D) none of these.	1
3.	If A & B are symmetric matrices of same order Square Matrix, then AB-BA is (A) symmetric (B) skew-symmetric (C) Identity Matrix (D) None of these.	1
4.	If for a square matrix A, $\boldsymbol{A}.(\boldsymbol{adjA}) = \begin{bmatrix} 2025 & 0 & 0 \\ 0 & 2025 & 0 \\ 0 & 0 & 2025 \end{bmatrix}$, then the value of $\lvert A\rvert + \lvert \text{adj } A\rvert$ is : (A) 1 (B) 2025 + 1 (C) $2025^2 + 45$ (D) $2025 + (2025)^2$	1
5.	If A is a matrix of order 3×3 and $\lvert A\rvert$= det (A), k is a scalar quantity, then $\lvert kA\rvert$ =? (A) k $\lvert A\rvert$ (B) $k^3\lvert A\rvert$ (C) $k^2\lvert A\rvert$ (D) none of these.	1
6	If $\begin{vmatrix} 2x & 8 \\ 5 & x \end{vmatrix} = \begin{vmatrix} 6 & -2 \\ 7 & 3 \end{vmatrix}$, then the value of x is (A) 3 (B) ±3 (C) ±6 (D) 6	1
7.	The function $f(x) = \lvert x + 1\rvert$ is (A) discontinuous for all Real values of x (B) discontinuous only for all integer values of x (C) not continuous at x=-1 (D) is nowhere discontinuous.	1

8.	Box function or Greatest Integer Function (G.I.F) [x] is: (A) Continuous for all real values of x (B) Continuous for all non-integer values (C) Discontinuous everywhere (D) Differentiable for all Real numbers.	1
9.	Which of the following functions are decreasing on (0, π/2) ? (A) sin 2x (B) cos 2x (C) cos 3x (D) tan x	1
10.	$\int_{-1}^{1} x\|x\| = ?$ (A) 0 (B) 1 (C) 2 (D) none of these.	1
11.	$\int (3\text{-}4x)^{5/2} dx$ = ? (A) $\frac{\left[(3-4\ )^{\frac{7}{2}}\right]}{7/2} + C$ (B) $-\frac{\left[(3-4x)^{\frac{7}{2}}\right]}{7/2} + C$ (C) $\frac{\left[(3-4x)^{\frac{7}{2}}\right]}{14} + C$ (D) $-\frac{\left[(3-4x)^{\frac{7}{2}}\right]}{14} + C$	1
12.	The product of the order and degree of the differential equation $axy + b\left(\frac{dy}{dx}\right)^3 + \frac{d^2y}{dx^2} = 1$ (a, b, are arbitrary constants) is: (A) 2 (B) 3 (C) 1 (D) 6.	1
13.	If a = $2\vec{\imath} - 3\vec{\jmath} - 2\vec{k}$,b = $-3\vec{\imath}$+q$\vec{\jmath}$+$3\vec{k}$ are perpendicular vectors then which of the following is correct? (A) q = −1 (B) q = 4 (C) q = −3 (D) None of these.	1
14.	If a line has direction ratios 2, −3, 7 then find the direction cosines. (A) $l = \frac{2}{\sqrt{62}}, m = -\frac{7}{\sqrt{62}}, n = \frac{7}{\sqrt{62}}$ (B) $l = \frac{2}{\sqrt{6}}, m = -\frac{3}{\sqrt{6}}, n = \frac{7}{\sqrt{6}}$ (C) $l = -\frac{2}{\sqrt{62}}, m = -\frac{3}{\sqrt{62}}, n = -\frac{7}{\sqrt{62}}$ (D) $l = \frac{2}{\sqrt{62}}, m = -\frac{3}{\sqrt{62}}, n = \frac{7}{\sqrt{62}}$.	1
15.	A student of class XII studying Mathematics comes across an incomplete question in a book. Maximise $Z = 3x + 2y + 1$ Subject to the constraints $x \geq 0, y \geq 0, 3x + 4y \leq 12$, He/ She notices the below shown graph for the said LPP problem, and finds that a constraint is missing in it: Help him/her choose the required constraint from the graph. 	1

	The missing constraint is (A) $x + 2y \leq 2$ (B) $2x + y \geq 2$ (C) $2x + y \leq 2$ (D) $x + 2y \geq 2$	
16.	Given the LPP Max z = x + y Subject to the constraints x + 2y ≤ 4 x + 2y ≥ 6 & x, y ≥ 0 The given LPP has (A)unique feasible solution (B) infinite number of feasible solutions. (C) no feasible solution (D) none of these.	1
17.	If $\vec{a}$ and $\vec{b}$ are two vectors such that $\lvert\vec{a}+\vec{b}\rvert=\lvert\vec{a}-\vec{b}\rvert$, then the angle between $\vec{a}$ and $\vec{b}$ is (A) 45° (B) 30° (C) 90° (D) 0°	1
18.	If A & B be two events such that $2P(A) = P(B) = \frac{5}{13}$, $P(A/B) = \frac{2}{3}$, then P(A∩B)=? (A) $\frac{2}{13}$ (B) $\frac{25}{78}$ (C) $\frac{11}{78}$ (D) none of these.	1
	Assertion-Reason Based Question Each question consists of two statements, namely, Assertion (A) and Reason (R). For selecting the correct answer , use the following code : (a) Both Assertion (A) and Reason (R) are the true and Reason (R) is a correct explanation of Assertion (A). (b) Both Assertion (A) and Reason (R) are the true but Reason (R) is not a correct explanation of Assertion (A). (c) Assertion (A) is true and Reason (R) is false. (d) Assertion (A) is false and Reason (R) is true.	
19.	**Assertion(A):** $cos^{-1}\left(\cos\left(\frac{7\pi}{6}\right)\right)$ is equal to 7π /6. **Reason (R):** Principal value branch of $\cos^{-1}$ x is [0, π] .	1
20.	**Assertion(A) :** A null or zero vector has zero magnitude. **Reason (R) :** If the dot product and cross product of two vectors $\vec{a}$ and $\vec{b}$ are zero (i.e. $\vec{a} \cdot \vec{b} = 0 = \vec{a} \times \vec{b}$) , then it implies one of the vectors $\vec{a}$ and $\vec{b}$must be zero.	1
	Section – B (Very Short Answer Type)	
21.	Prove that , $\tan^{-1}\left(\frac{\sqrt{1+x}-\sqrt{1-x}}{\sqrt{1+x}+\sqrt{1-x}}\right) = \frac{\pi}{4} - \frac{1}{2}\cos^{-1}x$. $-\frac{1}{\sqrt{2}} \leq x \leq 1$ **OR ,** Find the domain & range of $\sin^{-1}(2x-1)$.	2 2
22.	If a function defined by $f(x) = \begin{cases} kx+1, & x \leq \pi \\ \cos x, & x > \pi \end{cases}$ is continuous at x = π , then find the value of k.	2
23.	Consider function $f(x) = \lvert x-1\rvert$, check the continuity & differentiability of the function at x=1.	2

24.	Find $\int_{-5}^{5} \|x-2\|\ dx$ **OR,** $\int \frac{1}{sinx+cosx} dx$	2
25.	If $\vec{a}, \vec{b}, \vec{c}$ denote the position vector of three vertices of a triangle, then show that the area of the triangle is $\frac{1}{2}\|\vec{a}\times\vec{b}+\vec{b}\times\vec{c}+\vec{c}\times\vec{a}\|$ sq. unit.	2
	Section – C (Short Answer Type)	
26.	$\sqrt{1-x^2}+\sqrt{1-y^2} = a(x-y)$, then show that $\frac{dy}{dx}=\frac{\sqrt{1-y^2}}{\sqrt{1-x^2}}$ **OR** Given $\sin y = x\sin(a+y)$, *then show that* $\frac{dy}{dx}=\frac{\sin a}{1-2x\cos a+x^2}$.	3 3
27.	A spherical ball of ice melts in such a way that the rate at which its volume decreases at any instant is directly proportional to its surface area. Prove that the radius of the ice ball decreases at a constant rate.	3
28.	Using integration find the area of the region $\{(x, y) : y^2 - 4x \leq 0, y - x \geq 0\}$ **OR,** Find the area bounded by the Graph : $x^2+4y^2=16$ & x-axis.	3 3
29.	Find the shortest distance between the straight lines $\vec{r} = (\hat{\imath}+2\hat{\jmath}-4\hat{k})+\mu(2\hat{\imath}+3\hat{\jmath}+6\hat{k})$ & $\vec{r}=(3\hat{\imath}+3\hat{\jmath}-5\hat{k})+\lambda(2\hat{\imath}+3\hat{\jmath}+6\hat{k})$. **OR,** Find the values of p so that the lines $\frac{1-x}{3}=\frac{7y-14}{2p}=\frac{z-3}{2}$ & $\frac{7-7x}{3p}=\frac{y+2}{-5}=\frac{z}{1}$ are at perpendicular to each other.	3 3
30.	Solve graphically: Maximise $Z = 2x + y$ subject to $2x + 3y \leq 240$ $x + y \geq 100$ $x \geq 0,\ y \geq 0$.	3
31.	Bag I contains 4 red and 5 black balls while another Bag II contains 6 red and 4 black balls. One ball is drawn at random from one of the bags and it is found to be red. Find the probability that it was drawn from Bag II.	3
	Section – D (Long Type Answer)	
32.	Given A= $\begin{bmatrix} 2 & 8 & 5 \\ 1 & 1 & 1 \\ 1 & 2 & -1 \end{bmatrix}$, Find A^{-1}. Hence Solve $2x+y+z=-5, 8x+y+2z=-24, 5x+y-z+12=0$.	5

33.	$\int_0^1 \frac{\log(1+x)}{1+x^2}\,dx = \frac{\pi}{8}\log 2.$ **OR,** $\int_0^{\pi} \frac{x\,dx}{a^2\cos^2 x + b^2\sin^2 x} = \frac{\pi^2}{2ab}.$	5 5
34.	$(\tan^{-1}y - x)dy = (1 + y^2)\,dx$ **OR,** $(1 + 3e^{y/x})dy + 3e^{y/x}(1 - y/x)dx = 0$	5 5
35.	Find the Image of the point P(1,6,3) with respect to the straight line $\frac{x}{1} = \frac{y-1}{2} = \frac{z-2}{3}$. Hence find the equation between P & Q (the image of P) .Also find the distance of PQ.	5
	Section - E (Case Study-Based questions)	
36.	Sherlin and Danju are playing Ludo at home during Covid-19. While rolling the dice, Sherlin's sister Raji observed and noted the possible outcomes of the throw every time belongs to set {1,2,3,4,5,6}. Let A be the set of players while B be the set of all possible outcomes. A = {S, D}, B = {1,2,3,4,5,6} **Note: Don't just write answers, give proper justification** 	
(i)	Let $R : B \to B$ be defined by R = $\{(x, y)$: y *is divisible by* $x\}$ is (A) Reflexive and transitive but not symmetric (B) Reflexive and symmetric and not transitive (C) Not reflexive but symmetric and transitive (D) Equivalence	1
(ii)	Raji wants to know the number of relations possible from A to B. How many numbers of relations are possible? (A) 6^2 (B) 2^6 (C) 6! (D) 2^{12}	1
(iii)	Let R be a relation on B defined by R = {(1,2), (2,2), (1,3), (3,4), (3,1), (4,3), (5,5)}. Then R is (A) Symmetric (B) Reflexive (C) Transitive (D) None of these three	1
(iv)	Let R: $B \to B$ be defined by R={(1,1),(1,2), (2,2), (3,3), (4,4), (5,5),(6,6)}, then R is (A) Symmetric (B)Reflexive and Transitive (C) Transitive and symmetric (D) Equivalence	1

37.	The Relation between the height of the plant (y in cm) with respect to exposure to sunlight is governed by the following equation $y = 4x - 1/2\ x^2$ where x is the number of days exposed to sunlight. **Note: Don't just write answers, give proper justification** 	
(i)	The rate of growth of the plant with respect to sunlight is _____ (A) $\frac{4x-1}{2x^2}$ (B) 4 – x (C) x – 4. (D) $\frac{x-1}{2x^2}$	1
(ii)	What is the number of days it will take for the plant to grow to the maximum height? (A) 4 (B) 6 (C) 7 (D) 10	1
(iii)	What is the maximum height of the plant? (A) 12 cm (B) 10 cm (C) 8 cm (D) 6 cm	1
(iv)	What will be the height of the plant after 2 days? (A)4cm (B) 6 cm (C) 8cm (D) 10cm	1
38.	A coach is training 3 players. He observes that the player A can hit a target 4 times in 5 shots, player B can hit 3 times in 4 shots and the player C can hit 2 times in 3 shots.  From this situation answer the following: (**Note: Don't just write answers, give proper justification)**	
(i)	Find the probability that A, B and, C all will hit is (A) 4/5 (B) 3/5 (C) 2/5 (D) 1/5	1
(ii)	What is the probability that 'any two of A, B and C will hit? (A) 1/30 (B) 11/30 (C) 17/30 (D) 13/30	2
(iii)	What is the probability that 'none of them will hit the target'? (A)1/30 (B) 1/60 (C) 1/15 (D) 2/15 OR, what is the probability that B, C will hit and A will lose? (A)1/10 (B) 3/10 (C) 7/10 (D) 4/10	1 1

KENDRIYA VIDYALAYA SANGATHAN TINSUKIA REGION

PRE-BOARD EXAMINATION 2025-26

Subject :- PHYSICS (042)

Class:-XII

Time Allowed**:** 3 Hours Maximum Marks : 70

GENERAL INSTRUCTIONS:

Read the following instructions carefully and follow them:

Instructions:

1) There are 33 questions in all. All questions are compulsory.

2) This question paper has five sections: Section A, Section B, Section C, Section D and Section E.

3) All the sections are compulsory.

4) Section A contains sixteen questions, twelve MCQ and four Assertion Reasoning based of 1 mark each, **Section B** contains five questions of two marks each, **Section C** contains seven questions of three marks each, **Section D** contains two case study based questions of four marks each and **Section E** contains three long answer questions of five marks each.

5) There is no overall choice. However, an internal choice has been provided in one question in Section B, one question in Section C, one question in each CBQ in Section D and all three questions in Section E. You have to attempt only one of the choices in such questions.

6) Use of calculators is not allowed.

7) You may use the following values of physical constants where ever necessary.

I.c = 3×10^{8} m/s

ii. $m_e = 9.1 \times 10^{-31}$ kg

iii. $e = 1.6 \times 10^{-19}$ C

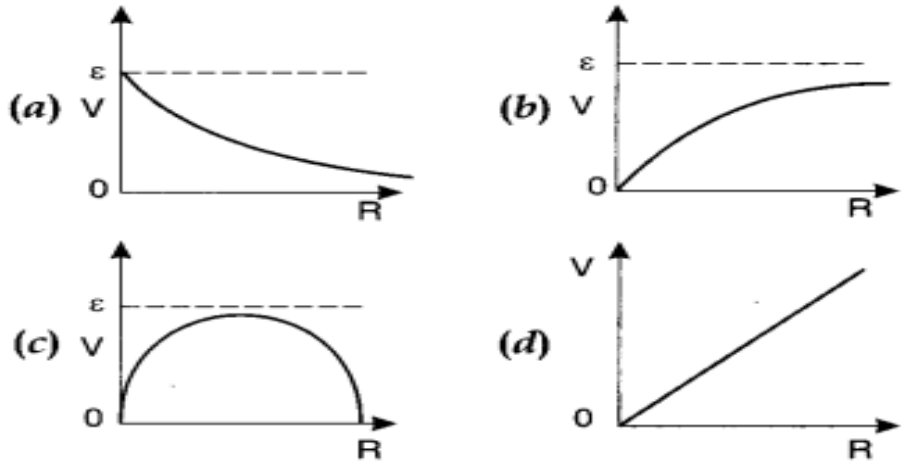
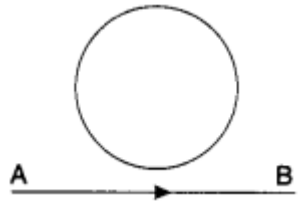
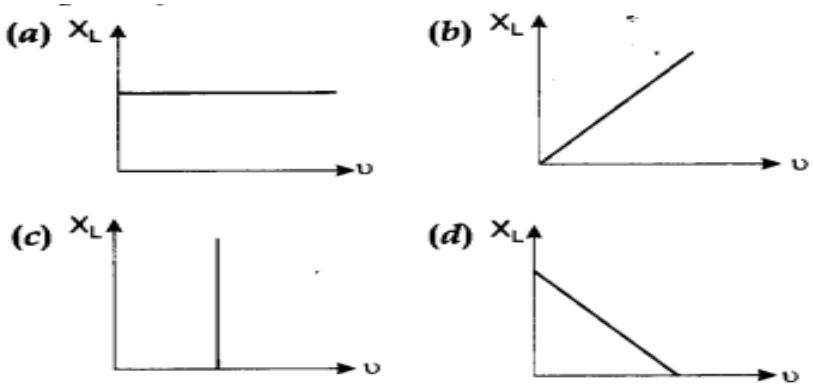
iv. $\mu_0 = 4\pi \times 10^{-7}$ Tm$\boldsymbol{A^{-1}}$

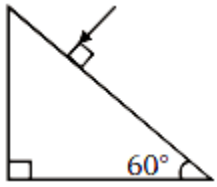
v. $h = 6.63 \times 10^{-34}$ J s

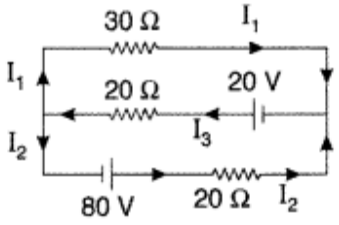
vi. $\varepsilon_0 = 8.854 \times 10^{-12}$ $\boldsymbol{C^2 N^{-1} m^{-2}}$

vii. Avogadro's number = 6.023 X $\mathbf{10^{23}}$ per gram mole

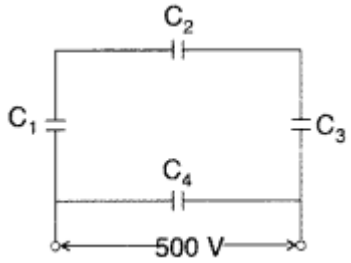
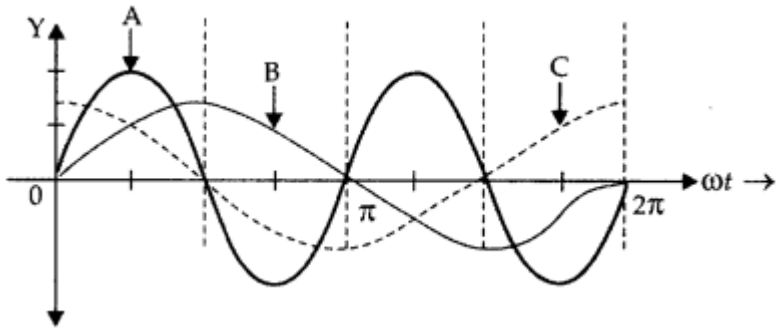
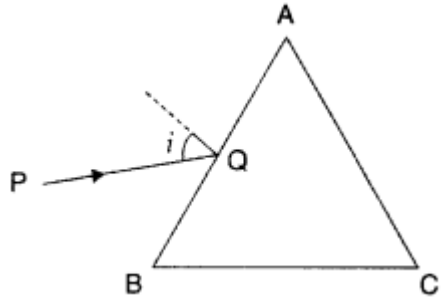
प्रश्न क्र./ Q. No.		अंक/ Marks
	SECTION A	
Q1	A cube of side 'b' has a charge q at each of its vertices. The electric field due to charge distribution at the centre of cube will be (a) q/b^2 (b) $q/2b^2$ (c) $32q/b^2$ (d) zero	1
Q2	A cell having an emf E and internal resistance r is connected across a variable external resistance R. As the resistance R is increased, the plot of potential difference V across R is given by	1

		
Q3	A charged particle is moving on circular path with velocity v in a uniform magnetic field B, if the velocity of the charged particle is doubled and strength of magnetic field is halved, then radius becomes (a) 8 times (b) 4 times (c) 2 times (d) 16 times	1
Q4	In the given figure current from A to B in the straight wire is decreasing. The direction of induced current in the loop is A  (a) clockwise (b) anticlockwise (c) changing (d) nothing can be said	1
Q5	Lenz's law is a consequence of the law of conservation of (a) charge (b) energy (c) induced emf (d) induced current	1
Q6	Which of the following graphs represents the correct variation of inductive reactance X_L with frequency u? 	1
Q7	Which of the following is called heat radiation? (a) X-rays (b) γ-rays (c) Infrared radiation (d) Microwave	1
Q8	If the critical angle for total internal reflection from a medium to vacuum is 30°, the velocity of light in the medium is : (a) $3 \times 10^8\ ms^{-1}$ (b) $6 \times 10^8\ ms^{-1}$ (c) $1.5 \times 10^8\ ms^{-1}$ (d) $15 \times 10^8\ ms^{-1}$	1
Q9	Two waves of the same frequency and same intensity are super impose in the same phase. The intensity of the resultant wave at the Central point will be (a) equal to that of the individual wave. (b) 3 times that of individual wave. (c) 2 times that of individual wave. (d) 4 times that of individual wave.	1

Q10	The hydrogen atom can give spectral lines in the Lyman, Balmer and Paschen series. Which of the following statement is correct? a. Balmer series is in the visible region b. Paschen series is in the visible region c. Lyman series is in the infra-red region d. Balmer series is in the ultraviolet region	1
Q11	Find the value of the angle of emergence from the prism. The refractive index of the glass $\sqrt{3}$ is .  (a) 45° (b) 90° (c) 60° (d) 30°	1
Q12	Two nuclei have mass numbers in the ratio 27 : 125. What is the ratio of their nuclear radii? (a) 2:3 (b) 3:5 (c) 5:3 (d) 3:2	1
	Directions: These questions consist of two statements, each printed as Assertion and Reason. While answering these questions, you are required to choose any one of the following four responses. (a) If both Assertion and Reason are correct and the Reason is a correct explanation of the Assertion. (b) If both Assertion and Reason are correct but Reason is not a correct explanation of the Assertion. (c) If the Assertion is correct but Reason is incorrect. (d) If both the Assertion and Reason are incorrect.	
Q13	Assertion: A metallic shield in form of a hollow shell may be built to block an electric field. Reason: In a hollow spherical shield, the electric field inside it is zero at every point.	1
Q14	Assertion : The electric potential on the surface of a charged sphere is continuous. Reason : Electric field on the surface of a charged sphere is discontinuous.	1
Q15	Assertion : In Bohr's model of hydrogen atom, the angular momentum of the electron is quantized. Reason : Only those electron orbits are permitted in which the circumference of the orbit is an integral multiple of the de Broglie wavelength of the electron.	1
Q16	Assertion. For identical coherent waves, the maximum intensity is four times the intensity due to each wave. Reason. Intensity is proportional to the square of amplitude.	1
	SECTION B	
Q17	Two charges of magnitudes -3Q and + 2Q are located at points (a, 0) and (4a, 0) respectively. What is the electric flux due to these charges through a sphere of radius '5a' with its centre at the origin?	2
Q18	Derive an expression for the resistivity of a good conductor, in terms of the relaxation time of electrons.	2
Q19	In what way is the behaviour of a diamagnetic material different from that of a paramagnetic, when kept in an external magnetic field? Distinguish between a diamagnetic material and a paramagnetic material based on their susceptibility.	2
Q20	In the ground state of hydrogen atom, its Bohr radius is given as $5.3X10^{-11}$m. The atom is excited such that the radius becomes $21.2x10^{-11}$m. Find (i) The value of the principal quantum number. (ii) Total energy of the atom in this excited state Or Calculate the wavelength of the photon emitted when an electron in a hydrogen atom makes a transition from the second orbit (n = 2) to the first orbit (n = 1).	2
Q21	The oscillating magnetic field in a plane electromagnetic wave is given by $B_y = (8 \times 10^{-6}) \sin [2 \times 10^{-11} t + 300 \pi x]$ T (i) Calculate the wavelength of the electro- magnetic wave. (ii) Write down the expression for the oscillating electric field.	2
	SECTION C	
Q22	Use Kirchhoff's rules to determine the value of the current I_1 flowing in the circuit shown in the figure.	3

		
Q23	A steady current (I_1) flows through a long straight wire. Another wire carrying steady current (I_2) in the same direction is kept close and parallel to the first wire. Show with the help of a diagram how the magnetic field due to the current I_1 exerts a magnetic force on the second wire. Derive the expression for this force	3
Q24	Define mutual inductance between two long coaxial solenoids. Find out the expression for the mutual inductance of inner solenoid of length l having the radius r1 and the number of turns n_1 per unit length due to the second outer solenoid of same length and n_2 number of turns per unit length.	3
Q25	Draw a ray diagram showing the image formation by a compound microscope. Hence obtain the expression for total magnification when the image is formed at least distance of distinct vision **Or** Draw a ray diagram to show the formation of the image of an object placed on the axis of a convex refracting surface, of radius of curvature 'R', separating the two media of refractive indices "n1 and 'n_2' ($n_2 > n_1$). Use this diagram to deduce the relation $\frac{n_2}{V} - \frac{n_1}{U} = \frac{n_2 - n_1}{R}$, where u and v represent respectively the distance of the object and the image formed.	3
Q26	State Huygen's principle. Using this principle draw a diagram to show how a plane wave front incident at the interface of the two media gets refracted when it propagates from a rarer to a denser medium. Hence verify Snell's law of refraction.	3
Q27	Draw a plot of the binding energy per nucleon as a function of mass number for a large number of nuclei, Using the curve for the binding energy per nucleon as a function of mass number A, state clearly how the release of energy in the processes of nuclear fission and nuclear fusion can be explained.	3
Q28	With the help of a labelled circuit diagram, explain how a junction diode is used as a full wave rectifier. Draw its input, output wave-forms.	3
	SECTION D	
Q29	According to wave theory of light, light of any frequency can emit electrons from a metallic surface provided the intensity of light is sufficient to provide necessary energy for emission of electrons. However, according to experimental observations, light of frequency less than threshold frequency cannot emit electrons, whatever be the intensity of incident light. Einstein proposed that electromagnetic radiation is quantized. If photoelectrons are ejected from a surface when light of wavelength λ_1 = 550 nm is incident on it, the stopping potential for such electrons is Vs = 0.19 V. Suppose radiation of wavelength λ_2 = 190 nm is incident on the surface. **(i) Photoelectric effect supports quantum nature of light because:** (A) there is a minimum frequency of light below which no photoelectrons are emitted (B) the maximum K.E. of photoelectrons depends only on the frequency of light and not on its intensity (C) even when the metal surface is faintly illuminated, the photoelectrons leave the surface immediately (D) electric charge of the photoelectrons is quantized **(a) A, B, C** **(b) B, C** **(c) C, D** **(d) A, D, C** **(ii) In photoelectric effect, electrons are ejected from metals if the incident light has a certain minimum:** (a) wavelength (b) frequency (c) amplitude (d) angle of incidence	

	(iii) Calculate the stopping potential V for surface 2 for λ_2 = 190 nm: (a) 4.47 V (b) 3.16 V (c) 2.76 V (d) 5. V **(iv) Calculate the work function of the surface 1:** (a) 3.75 eV (b) 2.07 eV (c) 4.20 eV (d) 3.60 eV Or **(v) Calculate the threshold frequency for the surface 2** (a) 500×10^{12} Hz (b) 4.98×10^{14} Hz (c) 520×10^{11} Hz (d) 460×10^{13} Hz	
Q30	**A p–n junction diode is formed when a p-type semiconductor is joined with an n-type semiconductor. At the junction, electrons from the n-side combine with holes from the p-side, forming a depletion region that acts as a barrier. The diode shows different behaviors under biasing:** **In forward bias, the external voltage reduces the potential barrier and allows current to flow easily.** **In reverse bias, the barrier potential increases, and only a small leakage current flows due to minority carriers.** **Beyond a certain reverse voltage, breakdown occurs, causing a large current to flow.** **p–n junction diodes are widely used as rectifiers, in clamping circuits, and in switching applications.** **(i)** What is formed at the junction of a p–n diode due to diffusion of charge carriers? (a) Conduction band (b) Depletion region (c) Valence band (d) Potential well **(ii)** What happens to the width of the depletion layer in forward bias? (a) Increases (b) Decreases (c) Remains same (d) Becomes infinite **(iii)** In reverse bias, the current through a p–n junction diode is due to: (a) Majority carriers (b) Minority carriers (c) Both majority and minority carriers (d) None **(iv)** When used as a rectifier, the main function of a p–n junction diode is (a) Amplification (b) Switching (c) Converting AC to DC (d) Voltage regulation **Or** The typical forward voltage drop across a silicon diode is approximately: (a) 0.1 V (b) 0.3 V (c) 0.7 V (d) 1.5 V	
	SECTION E	
Q31	(i) Derive expression for capacitance of a parallel plate capacitor with dielectric medium fully placed (*ii*) A network of four capacitors each of 12μF capacitance is connected to a 500 V supply as shown in the figure. Determine (a) equivalent capacitance of the network and (b) charge on each capacitor.	

	 OR (a) Write two properties of equipotential surfaces. Depict equipotential surfaces due to an isolated point charge. Why do the equipotential surfaces get closer as the distance between the equipotential surface and the source charge decreases? (b) An electric dipole of dipole moment p□ , is placed in a uniform electric field E Deduce the expression for the electric potential energy and write condition for stable and unstable equilibruim .	
Q32	(a) Draw a schematic arrangement for winding of primary and secondary coil in a transformer when the two coils are wound on top of each other. (b) State the underlying principle of a transformer and obtain the expression for the ratio of secondary to primary voltage in terms of the (i) number of secondary and primary windings and (ii) primary and secondary currents. (c) Write the main assumption involved in deriving the above relations. (d) Write any two reasons due to which energy losses may occur in actual transformers. OR A device 'X' is connected to an ac source V = V0 sin cot. The variation of voltage, current and power in one cycle is shown in the following graph: (a) Identify the device 'X'. (b) Which of the curves A, B and C represent the voltage, current and the power consumed in the circuit? Justify your  (c)How does it impedance vary with frequency of the ac source ? Show graphically. (d) Obtain an expression for the current in the circuit and its phase relation with ac voltage	
Q33	(a) A ray 'PQ' of light is incident on the face AB of a glass prism ABC (as shown in the figure) and emerges out of the face AC. Trace the path of the ray. Show that ∠i + ∠e = ∠A + ∠δ  where δ and e denote the angle of deviation and angle of emergence respectively. Plot a graph showing the variation of the angle of deviation as a function of angle of incidence. State the condition under which ∠δ is minimum. (b) Find out the relation between the refractive index (μ) of the glass prism and ∠A for the case when the angle of prism (A) is equal to the angle of minimum deviation (δm). Hence obtain the value of the	

	refractive index for angle of prism A = 60° OR (a) A point object is placed in front of a double convex lens (of refractive index n = $\frac{n_2}{n_1}$ with respect to air) with its spherical faces of radii of curvature R_1 and R_2. Show the path of rays due to refraction at first and subsequently at the second surface to obtain the formation of the real image of the object. Hence obtain the Lens-maker's formula for a thin lens. (b) A double convex lens having both faces of the same radius of curvature has refractive index 1.55. Find out the radius of curvature of the lens required to get the focal length of 20 cm	

KENDRIYA VIDYALAYA SANGATHAN, TINSUKIA REGION

POLITICAL SCIENCE (028)

PRE-BOARD CLASS XII (2025-26)

Time allotted: 3 hours **Maximum Marks: 80**

General instructions:

Read the following instructions very carefully and follow them:

1. This question paper contains 30 questions. All questions are compulsory.
2. Question paper is divided into five sections A, B, C, D and E.
3. Section A questions number 1 to 12 are Multiple Choice type questions. Each question carries 1 mark.
4. Section B questions number 13 to 18 are Short Answer type questions. Each question carries 2 marks. Write answer to each question in 50 to 60 words.
5. Section C questions number 19 to 23 are Long Answer Type -I question. Each question carries 4 marks. Write answer to each question in 100 to 120 words.
6. Section D questions number 24 to 26 are Passage, Cartoon and Map-based questions. Answer each question accordingly.
7. Section E questions number 27 to 30 are Long Answer type-II questions. Each question carries 6 marks. Write answer to each question in 170 to 180words.
8. There is no overall choice in the question paper. However, an internal choice has been provided in few questions. Only one of the choices in such questions has to be attempted.

SECTION-A (12x1=12 MARKS)

1 Which one of the following was not a weakness of the Soviet Union? 1
A) The Communist party was not accountable to the people
B) There are rampant corruption in the Soviet Union
C) The party bureaucracy had many more privileges than an ordinary citizen had.
D) Gorbachev initiated reforms in USSR.

2 In the following question, a statement of Assertion (A) is followed by a statement of Reason(R). Choose the appropriate answer from the options given below as the correct answer: 1
Assertion (A): The old system of social welfare in the Soviet Union automatically got destroyed.
Reason(R): The withdrawal of government subsidies pushed large sections of the people into poverty.
Options:
A) Both A and R are true, and R is the correct explanation of A.
B) Both A and R are true, but R is not the correct explanation of A.
C) A is true, but R is false.
D) A is false, but R is true.

3 In which of the following area does UNESCO work for their promotion. 1
(i) Print and electronic Media
(ii) Education and Natural Science
(iii) Culture and communication
(iv) Literacy, technical and educational institution.

A) (iii), (ii),(i)
B) (ii), (iii), (iv)
C) (iv), (iii),(i)

D) (i),(iii),(iv)

4 Which factors contributed to Pakistan's failure in building a stable democracy? 1
A) Dominance of the military
B) Dominance of the clergy
C) Dominance of the landowning aristocracy
D) All of the above

5 Given below are two statement: 1
Statement I: Movement of the people of Hyderabad State against the Nizam's rule had gathered force and momentum.
Statement II: Razakars is the para-military force of Nizam.

In the light of above statements, choose the correct answer form the option given below:
A) Both statement I and Statement II are true
B) Both statement I and Statement II are false.
C) Statement I is true, but Statement II is false.
D) Statement I is false, but Statement II is true.

6 What was another name of Rajiv Gandhi –Longowal Accord? 1
A) Maharashtra Accord
B) Punjab Accord
C) Manipur Accord
D) None of them

7 Lok Sabha election in 1989 led to the defeat of …….. Party and an era of …..... government began in India. 1
A) Bharat Janata Party, Unilateral
B) Congress, Coalition
C) Congress, single
D) Bahujan Samaj Party, Coalition

8 Identify the country: 1
(i) Small saving and credit cooperative in the rural areas have helped in reducing poverty
(ii) The First country to liberalize its economy in the South Asian Countries
(iii) Earlier the island had the sultan as the head of the state. Now, it's republic
(iv) A landlocked country with a monarchy.

A) (i)-Maldives, (ii)-India, (iii)-Nepal, (iv)- Bhutan
B) (i)-India, (ii)-Sri Lanka, (iii)-Maldives, (iv)-Bhutan
C) (i)-Sri Lanka, (ii)-Pakistan, (iii)-Nepal, (iv)-India
D) None of the above

9 What does the United Nation logo symbolize? 1
A) Global Progress
B) World Peace
C) Equity in the World
D) Harmony amongst the people

10 The accession of which princely states was resolved after plebiscite that confirmed people's desire to join India? 1
A) Hyderabad
B) Manipur
C) Kashmir
D) Junagarh

11 Which of the event was directly related to the assassination of Indira Gandhi? 1
A) The Sikkim Merger
B) Operation Blue Star
C) The Mizo Peace Accord
D) The formation of the NDA government in 1998

12 The economic reforms initiated in 1991, often referred to as the New Economic Reforms. The theoretical framework behind these reforms is most accurately described as the: 1
A) Mahalanobis model for planned industrial development
B) Nehruvian model of state-led industrialization
C) Manmohan formula of Liberalization, privatization and globalization
D) None of the above

SECTION-B (6x2=12 MARKS)

13 Describe any two reforms initiated by Indira Gandhi after 1967. 2

14 Which are the two models of development? Which model of development was adopted by India? 2

15 What is meant by 'one-party dominance' in the Indian Context? 2

16 Explain any two common features relevant to the countries of South Asia. 2

17 Suggest any two measures to strengthen India's traditional security. 2

18 South Asia stands for diversity in every sense and yet constitutes one geo-political space. Do you agree with the statement? Give two reason for your answer. 2

SECTION-C (5x4=20 MARKS)

19 Explain any four issues of tension and conflicts in the former Soviet Republics. 4

20 "The UN is an imperfect body but without it the world would be worse off". Explain the statement. 4

21 A) Differentiate between the traditional and the non-traditional notion of security. 4

OR

B) Explain any four component of India's security strategy.

22 How did the state of Hyderabad became a part of the Indian Union after partition? 4

23 The Assam Movement from 1979 to 1985 is the best example of the movements against 'outsiders'. Support the statement with suitable example. 4

SECTION-D (3X4=12 MARKS)

24 **Study the picture given below and answer the question that follow**:



Choose the most appropriate option:

I) What situation does the picture refer to? 1

A) Appearance of Indira Gandhi before the public.
B) Indira Gandhi challenge the judiciary
C) Appearance of Indira Gandhi before commission but refuse to answer
D) None of them

II) Which commission is represented into the cartoon? 1

A) The law commission
B) Shah commission
C) Human right commission
D) None of the above

III) What are the points of this commission's report? 1

A) Press Censorship
B) Preventive detention law
C) Delhi power Supply Corporation received to cut electricity
D) All of the above

IV) The commission which represent the cartoon was from in which year and headed by whom? 1

A) May 1977. Justice J.C. Shah
B) April 1977. Justice J.C. Shah
C) May 1977. Justice J.N. Shah
D) April 1977. Justice N.A. Ray

25 In the given outline political map of India, four states have been marked as (A),(B), (C) and (D). Identify these states on the basis of the information given below and write their correct names in your answer book along with the respective serial numbers of the information used and the concerned alphabets as per the format that follows:

Sr.Number for the Information used	Concerned alphabet Given in the map	Name of the state
I		
II		
III		
IV		

I) The state to which Jayaprakash Narayan belonged. 1

II) The state where congress was not in power in 1957. 1

III) "Aaya ram, Gaya Ram" phrase was originated from which state. 1

IV) The state where congress government impose article 356 of the constitution in 1959. 1



26 Read the passage and choose the most appropriate answer for the questions given below:

Globalization is a multidimensional concept. It has political, economic, and cultural manifestation and these must be adequately distinguished. It is wrong to assume that globalization has purely economic dimensions, just as it would also be mistaken to assume that it is a purely cultural phenomenon. The impact of globalization is vastly uneven it affects some societies more than others- and it is important to avoid drawing general conclusions about the impact of globalization without paying sufficient attention to specific contexts.

I) which of the following promotes Globalization? 1

A) External trade

B) Trade at a large scale

C) Trade at a small scale

D) Internal trade

II) Which among the following are the cause of Globalization? 1

A) Easy movement of goods, capital and services

B) Increasing the international trade

C) Companies easily operating in various countries

D) All of the above

III) Write down the benefits of Globalization. 2

SECTION-E (4X6=24 MARKS)

27 A) Compare and contrast the 'shock therapy' of the USSR with 'the open door' policy of China. 6

OR

B) Evaluate the role of ASEAN in the contemporary world.

28 A) Analyse any major development towards the end of 1980s that were to make a long lasting impact on the politics of India. 6

OR

B) Why is National Democratic Alliance (NDA) III called a 'Surplus Majority Coalition'? Write down the four element of growing consensus that appear among most of the parties. (2+4=6)

29. A) Explain peace and conflict relation between India and China. 6

OR

B) Describe the nuclear policy of India.

30. A) Explain the meaning of 'Global Common'. How are environmental concern becoming important in global politics? 6

OR

B) Analyze India's stand on environmental issues discussed at international level.