KV JHAJJAR
HOLIDAY HOMEWORK
AUTUMN BREAK
CLASS -1

English

1. write five pages of handwriting
2. learn poem fun with numbers
3. learn and write names of 10 animals ,10 Birds, 10 flowers, months of the year and days of the week.

Do in separate notebook

हिन्दी

1. अ से ज्ञ तक स्वर व व्यंजन लिखें व याद करें।
2. प्रतिदिन मात्राओं व उनसे बनने वाले शब्दों का अभ्यास करें।
3. प्रतिदिन पांच लाइनें सुलेख लिखने व पढ़ने का अभ्यास करें।
4. एक ऐ 4 साइज शीट पर विभिन्न प्रकार के 5 जानवरों के चित्र बनाकर लाएं।

Maths

1.Learn numbers Name 1 to 100.
2.Learn and write tables of 2& 3.
3.Write backward counting 100 to 1.
4.Do practice of addition and subtractions sums daily.

HOLIDAY HOME WORK-2025-26

CLASS-3rd.

SUB-EVS

1.Paste the picture of living and non living things.

2.Name the pet animal that you like most And write 10 sentence about it.

3.Write 5 sentences about what you like to doing with your family during holidays.

4.Make a poster on save water on A3 size paper and a short slogans.

5.Write any five good manners that you shown in your home to elders.

6.Read 1 page of book daily.

HINDI

1.10 विलोम शब्द लिखिए।

2.10 एकवचन बहुवचन शब्द लिखिए।

3.अखबार या कहानी पुस्तिका से 10 नए शब्द खोज कर लिखें।

4.दशहरा त्योहार के बारे में पांच वाक्य लिखें।

5.प्रतिदिन एक पेज हिंदी पाठ्य पुस्तक का पढ़िए।

6.10 पेज सुंदर सुलेख लिखें।

MATHS

1.Learn and write tables 2 to 15. And revise it daily.

2.learn number names up to five thousand.

3.Revise chapter 6& 7 in rough notebook.

4. Do practice of word problems of addition, subtraction, multiplication and division.

Kendriya Vidyalaya

Class - III | Computer

Autumn Break Homework

(1) Woute 5 Uses of Computer in daily life

(2) Draw and label keys of keyboard in notebook

3) Write some safety rules of computer labs.

4) Learn Chapter 1 and 2.

Kendriya Vidyalaya Jhajjar

Class - IV |

Autumn Break Homework

subject -**Maths**

2. 1. Prepare a multiplication table chart upto 20.

2.Make different types of angles (acute, obtuse, right) using match sticks.

3.Draw five pattern you see at home (on window, floor, walls etc.)

4. Write five things in which fractions are use in daily life.

5. DO 20 addition and 20 subtraction questions.

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1. □□□□□□□□ □□ □□□□□ □□□□|

2. □□□□□□□□ □□ □□□ □□□□□ □□□□□□ □□ □□□□|

3. 10 □□□□□ □□□□□□ □ 10 □□□□ □□□□ □□□□ □□□□

4. □□□□□ □□□□ □□ □□□□ □□□ 10 □□□□ □□□□ |

5. □□□□□□□□□ □□ □□□□□ □□ □□ □□□□□□ □□ □□□□□ □□□□ □□□□□□ □□□ □□□ |

Computer

1. Write 10 uses of a computer in different fields (like school, bank, hospital, railway, shop, etc.).

2. Draw and label the parts of a computer system (CPU, Monitor, Keyboard, Mouse, Printer, Speaker).

3. Write any 5 safety rules you must follow in the computer lab.

4. Write 5 differences between Input Devices and Output Devices.

5. Write any 5 shortcut keys with their uses.

6. What is the difference between Hardware and Software? Write 2 examples of each.

7. Learn 1st unit completely.

TWAU (Do this in term 1 old notebook)

1.Task: Write 5 sentences about your Favourite festival.

2.Draw: A scene showing how you celebrate the festival

3 .Task: Make two columns - Healthy Food and Junk Food. Write 5 items in each.

4 .Draw: Your favorite healthy food.

5 .Task: Draw and label the parts of a plant - root, stem, leaves, flower, fruit.

6 .Activity: Observe a plant in your garden or park and try to identify its parts and write the names in your notebook.

7 Write 5 healthy habits.

Kendriya Vidyalaya

Class - IV | Computer
Autumn Break Homework

1. Write 10 uses of a computer in different fields (like school, bank, hospital, railway, shop, etc.).
2. Draw and label the parts of a computer system (CPU, Monitor, Keyboard, Mouse, Printer, Speaker).
3. Write any 5 safety rules you must follow in the computer lab.
4. Write 5 differences between Input Devices and Output Devices.
5. Write any 5 shortcut keys with their uses.
6. What is the difference between Hardware and Software? Write 2 examples of each.
7. Learn 1st unit completely.

Kendriya Vidyalaya

Class – V | Computer

Autumn Break Homework

1. Write 10 uses of a computer in our daily life.

2. Draw and label the main parts of a computer system.

3. Write 5 rules for safe use of the internet.

4. Differentiate between System Software and Application Software (2 points each).

5. Write 5 differences between Input, Output, and Storage devices (with examples).

6. Write any 10 shortcut keys with their functions.

7. Learn chapter 1 and 2.

SCIENCE HOLIDAY HOMEWORK

Autumn break Home works:

Science (Class 6th)

- Solve exercise questions of Measurement of Length and Motion.
- Revise the same.
- Complete MDP.
- Solve the half-yearly question paper.

Kendriya Vidyalaya

Class - VI | Artificial Intelligence

Autumn Break Homework

1. Write a short note on Artificial Intelligence in your own words.

2. Mention 5 examples of AI around us (like Alexa, Google Maps, Face Unlock, etc.).

3. Write the difference between Human Intelligence and Artificial Intelligence (any 3 points).

4. List 5 benefits of Artificial Intelligence in our daily life.

5. Write 5 limitations/disadvantages of Artificial Intelligence.

6. What are Smart Devices? Write any 5 examples.

7. Learn 1st unit completely.

Sart\kalaIna AvakaSa gaRhkaya-.kxaa CzI.
ivaYaya ihMdI
1 paz ek sao saat tk ko pazaoM maoM sao tIna tIna mauhavarodar vaa@ya Kaoj,akr ilaiKe.
2 rhIma ko saBaI daohaoM ka Aqa- ihMdI maoM ilaKkr saBaI daohaoM ko ek ek]dahrNa dokr spYT
klijae
3 “maatRBaUima” pr ek kivata banaakr ilaiKe.
4 saM&aÊ sava-naama AaOr ivaSaoYaNa ko Baod ilaKkr dao dao]dahrNa ilaiKe.
5 ihMdI maoM ek sao saaO tk iganatI ilaiKe va yaad klijae.
6 Apnao bacao hue kaya- kao pUra klijae.
Sart\kalaIna AvakaSa gaRhkayama\-.kxaa YaYzI.
ivaYaya saMskRt
1 saMskRt maoM baIsa saUi@tyaaÐ ilaiKe.
2 yauYmad\ AaOr Asmad\ Sabd ko $paoM sao saMskRt maoM ek ek vaa@ya banaa[e
3 baalakÊ baailaka AaOr puYp Sabd ko Ép ilaiKe AaOr yaad klijae

4 pz\ AaOr gama\ Qaatu ko Ép laT\ Ê la= \Ê laRT\ ÊlaaoT\ AaOr ivaiQaila=\ lakaraoM maoM Ép ilaiKe AaOr
yaad klijae.
5saMskRt maoM ek CaoTI khanaI ilaiKe AaOr yaad klijae.
6 Apnao bacao hue kaya- kao pUra klijae.

KV JHAJJAR
HOLIDAY HOMEWORK
AUTUMN BREAK

CLASS VI. SUB: MATHS

1. Make their learners diary for Chapter 1 to 5.
2. Prepare the MDP PROJECT for Maths of around 8 to 10 pages on the following topic: My Dream House
(Integrate all the subjects like Mathematical aspect area etc..geographical aspects..etc)

3. Do the following questions in your Maths notebook:

Question 1 Find out the digit sums of all the numbers from 40 to 70. Share your observations with the class.

Question 2 Among the numbers 1-100, how many times will the digit '7' occur? Among the numbers 1-1000, how many times will the digit '7' occur?

Question 3 How many total cars passed through the crossing between 6 am and noon?

Question 4 Why do you think so little traffic occurred during the hours of 6-7 am, as compared to the other hours from 7 am to noon?

Question 5 Why do you think the traffic was lesser and lesser each hour after 8am all the way until noon?

Question 6 The table shows the number of books read by students in one week:

Student
Aditi
Rohan
Meena
Aarav

Question 7 What if the game was played till 900? How would you answers change?

Question 8 What jump size can reach both 15 and 30? There are multiple jump sizes possible. Try to find them all.

Question 9 Who am I?

a. I am a number less than 40. One of my factor is 7.

b. I am a number less than 100. Two of my factors are 3 and 5. One of my digits is 1 more than the other.

Question 10 Find the smallest number that is a multiple of all the numbers from 1 to 10, expect for 7.

ENGLISH HOLIDAY HOMEWORK

Class 6th

1. Complete the learners diary of all the lessons, completed in term-1.

Complete MDP.

Write a paragraph on Importance of Festivals in 80-100 words.

Write a paragraph on how I spent My Autumn Break in 80-100 words.

Write a short story based on the following hints:-

A crow ..... flies finds a piece of cheese..... to a tree a hungry fox sees the crow praises him requests ... thinks of ce plain .... praises to him.... the crow pleased..... fall down fox picks up..... runs away.

KV JHAJJAR
HOLIDAY HOMEWORK
AUTUMN BREAK
CLASS VII SUB: MATHS

1. Make their learners diary for Chapter 1 to 4.
2. Prepare the MDP PROJECT for Maths of around 8 to 10 pages on the following topic: Sports and Mathematics

(Integrate all the subjects)

3. Do the following questions in your Maths notebook:

1. Write an expression for:
Raju spends ₹15 every day on bus fare for 7 days. How much does he spend in total?
Identify the terms in the expression:
3. Compare without calculating:
120 + 45 …..119 + 46

4. Write a situation for the expression 5 ×(20+10) and evaluate it.
5. A box contains 12 pens. A shopkeeper buys 8 such boxes and gives 5 pens to his friend. Write an expression and find the number of pens left with him.
6. A school trip costs ₹250 per student. If 36 students go and the teacher collects ₹10 extra per student for refreshments, write an expression for the total amount collected and evaluate.
7. Raghu bought 60 kg of rice and packed them into 5 kg packets. He already had 4 such packets.

Write an expression for the number of packets and find the total.

8. Two friends order food in a hotel. Each orders 1 dosa (₹25) and 1 juice (₹15). Write an expression for the total bill and calculate it for 4 friends.

Science Autumn Break Holiday Homework 2025-26

Class VII

1. Read the chapter and search 10 questions & write answers in your word.

2. Solve the NY question paper (MCQ side).

3. Make slogans/posters on:
a) Healthy food eating habits
b) Mental stress removing activities

AUTUMNBREAK HOMEWORK SST CLASS: - VII 2025 -26

1 To make (HOLIDAYS HOME WORK COPY) in which you write Important points HISTORY LESSON NO 4 TO 5, CIVICS LESSON NO 9 and GEOGRAPHY LESSON NO 1 TO 3 after Reading Lessons (2 pages for each Lessons)

2 3 Maps States and Capitals of India, 2 Maps major rivers of India, 2Maps major mountains of India, 3 maps of Continents and Oceans in world maps,2Maps in which states of India Tropic of Cancer passes.

3. Write article on 5 Freedom fighters of India with paste Picture also on its.

4. Make a Chart Related to Social Studies of VII as any Topic of History ,Civics and Geography which Included Valuable Points.

5. Make MDP Project work topic of 'weather and climate' or Transport and Communication'

6. Complete Learners Diary with Half yearly questions.

7. Make a Scrapbook showing 5 different regions climate (Rajasthan, Jammu and Kashmir), climate type, Temperature, Rainfall, Clothes, Food types, National park, Wildlife sanctuaries and best month to visit.

7

H. H.W. English

Q.1 Application writing-

Write an application to the principal requesting for an excursion.

Q.2 Letter Writing-

Write a letter to your father asking him to send you money for buying books.

Q.3. Diary entry-

Write 2 diary entries for any 2 days in autumn break.

Q.4. Paragraph writing-

Importance of Discipline

Save Trees Save life.

Q.5. 1)Write a notice for organizing an Inter-house Group dance competition OR painting competition.

Q.6. Value Based Question-

Give a different ending to the story

My Brother's Great Invention.

7th Class - AI - Autumn Break Homework

1) Name two AI-based apps or uses and draw any gadget you like.

2) Write one major difference between Human Intelligence & AI.

3) Write two ways AI helps us in daily life.

4) Imagine a robot friend. Write 3 lines about it.

5) Learn Unit 1 complete.

8th Class - AI - Autumn Holiday Break Homework

1) Name two AI-based Apps and gadgets you used and draw any one of them and label it.

2) Write 2 ways each AI is used in:
   a) Education
   b) Health care
   c) Smart homes

3) Make proper Notes from (Unit-1) in your notebook (PDF will be sent).

4) Write down all SDG goals in Notebook and learn.

Subject: AI - Class 9th

1. Make notes on topic Maths for AI and ICT Skills.
2. Read and make notes and question answer from Enterpenure Skills.
3. Learn and write 30 Short-Cut Keys in notebook.
4. Solve PT-2 Questions in notebook.

KV JHAJJAR
HOLIDAY HOMEWORK
AUTUMN BREAK
CLASS X SUB: MATHS

1. Prepare the ART INTEGRATED PROJECT for Maths of around 8 to 10 pages on the following topic:
   GOLDEN RATIO IN ART AND NATURE.
   OR
   STATISTICS IN SPORTS

(Integrate all the subjects)

2. Complete the portfolio.
3. Prepare chapter 4,5,6,7 for test on 7 October 2025.
4. Solve the question paper of PT 2 in your notebook.
5. Do the subject enrichment activity shared to you.

English

Autumn Break Holidays' Homework

Class 10th

1. Do Complete Portfolio.

2. Complete Sample Paper given.

3. Learn and write all the characters of the book "First Flight" .

4. Write the themes of all the chapters of the book "Footprints Without Feet" .

Bio

Science Autumn Break Holiday Homework 2025-26

Class X

1. Read & write 10 questions from chapter hereditary
2. Slogan writing on:
   a) Healthy food eating habit
   b) Mental stress removing exercise
3. Draw diagrams of all diagram given in chapter life processes

Subject: AI - Class 10th
Automn Break Homework
1. Make proper notes of chapter no. 3,4,5 with question & Answer.
2. Learn chapter 3 and 4
3. Solve PT-2 Question paper in Notebook

Autumn break homework XI B

SUBJECT- ENGLISH CORE.

1. Revise all the topics upto September 2025 syllabus for Half Yearly Exam just to be conducted after Autumn Break.

2. Write from given previous years' Half Yearly Exam question papers (THREE EACH) in your English note book-

A. Poster

B. Classified Advertisements

C. Speech

D. Debate

AUTUMN BREAK HOME WORK FOR CLASS:-XI ECONOMICS 2025-26

Learn all Chapter of Halfyearly Exam with all Questions Answers, MCQs, CASE STUDY ,ASSESSION REAOSING,COMPETIENCE BASED QUESTIONS,ANASYLIS QUESTIONS,SHORT AND LONG QUESTIONS in Your Book.Write and learn all these Previous years questions answer withtopic wise in Holydays Homework copy andUnderstand them.The Students may be encouraged to develop Project as Per the suggested Project guidelines, under this student will be do only one comprehensive project using concept .The Project should be 30-40 Pages hand-written. The Scope of the Project- Students may work upon the followings lines; 1- Introduction, 2-Details of the topic, 3- Pros and Cons of the economic event, 4- Major Criticism related to the topic, 5 –Students Own Views / Opinion and Learning from the work, 6- Any other Valid Idea of the student who is actually working on the Project .(1) Effect of GST on Indian Economy(2) Case study of Public PrivatePartnership. (3) Effect of Demonetrision on Indian Economy.ANY ONE TOPICFOR PROJECT PART A MICROECONOMICS Q1(A)Why does Economic Problem arise ? What is the difference between Microeconomics and Macroeconomics.Q1(B) Explain the Central Problem (1) What to Produce (2) How to Produce and for Whom to Produce with Suitable examples.Q2 What is Production Possibility Curve ? Explain with Schedule and diagram and why is PPC curve concave ?Q3 What is opportunity cost and Marginal Opportunity Cost (MOC) Explain the help of Production Possibility Schedule?Q4(a) What will be the impact of "SarvShikshaAbhiyan" on the Production Possibilities curve of the Indian economy and Q 4(B) Why is PPC Curve Slope downward and explain the MRT with numerical examples.Q5 Explain the relationship between TU and MU with the help of Schedule and diagram?Q6 Explain the Law of Diminishing Marginal Utility with and diagram Schedule?Q 7(a) Explain the relationship between : 1 – Price of other Goods and demand for given Goods.(Substitute Goods and Complementary Goods Effect) 2 – Income of the buyers and demamd for a Good.(Normal Goods and Inferior Goods)Q7(b) Explain the Consumer's equilibrium with utility Analysis in case of ONE

Commodity and TWO Commodity case with the help of Schedule and diagram?Q8(a) What is Indifference Curve (IC) ? Explain the Properties of Indifference Curve with the help of Schedule and diagram?Q8 (b) Why is Indifference Curve downward and Convex.Explain the meaning of diminishing Marginal rate of Substitutes with numerical example.Q9 Explain Consumer's equilibrium with the help of indifference curve analysis with Schedule and diagram?Q10 What is Budget line with diagram? Why is it downward sloping.Q11(a) Explain the "Law of demand " with Schedule and diagram? Explain the determinants of Consumer "demand?Q 12() Distinguish between demand by a Individual Consumer and Market demand of a Good..Also state the factors leading to fall in demand by an Individual Consumer. Q13 Distinguish between 'change in quantity demand and 'change in demand and Inferior goods and normal good Q14(A) consumer spend 200Rs on a good Priced at 5 Rs Per unit. When the Price falls by 20Percent ,he continues to spend 200Rs Find out the Price Elasticity of demand by Percentage Method ?{ practice numerical this types } Q 14(b)The Price elasticity of demand for a Good is -0.4, If its Price increase by 5 Percent , by What Percentage will its demand falls? Calculate. Q15 Explain the factors affecting the Price elasticity of demand ? Q16 Difference between fixed factor and variable factor and Short run Period and Long run Period? Q17 Explain the Law of Variable Proportion with Schedule and diagram with three stages?

PART –B STATISTICS Q1 What is Statistics ? Explain the Scope of the Statistics. Q2 What is Statistical Tools ? What are the importance of Statistics. Q3 What are Secondary data? Discuss the Various Sources of Collecting Secondary data. Q4 Explain – 1- Direct Personal Investigation. 2- Indirect Oral Investigation.Q5What are the qualities of a Good Questionnaire. Q6What is Census Method and Sample Method with merits and demerits.Q 7 Discuss the various Method of Sampling.Q8 What is meant by Classification ? Explain different method of Classification of data.Q9 What is a Statistical table? Explain features of a Good Table.Q10 Draw a flow Chart Showing different kinds of Tables. Q11 Explain Bar Diagram and Pie Diagram with numerical examples.Q12 Draw Histogram ,Polygon ,Frequency Curve and Ogive with numerical examples.Q13 What is Graph ? Rules for Constructing Graphs with merits.Q 14 Find out the missing frequency of the group 20-30 when the median is 28

CLASS INTERNAL	0-10	10-20	20-30	30-40	40-50
FREQUENCY	5	8	?	16	6

Q 15 Find out the median from the following data

SIZE	10	12	14	16	18	20	22
FREQUENCY	2	5	12	20	10	7	3

Q 16 Find out the mean from the following data with direct method ,short cut method and step –deviation method . 19 lab ours gets the following wages .

WAGES	10	20	30	40	50
NUMBER OF LABOUR	4	5	3	2	5

Q 17 Find out the ARITHMETIC MEAN IN DIRECT METHOD ,SHORT CUT METHOD AND STEP DEVIATIONS METHOD.

CLASS INTERNAL	0-10	10-20	20-30	30-40	40-50
FREQUENCY	20	24	40	36	20

Q 18 Find out the MEDIAN WITH FREQUENCY DISTRIBUTION SERIES .

CLASS INTERNAL	0-10	10-20	20-30	30-40	40-50
FREQUENCY	22	38	46	35	20

Q19. Marks of 10 students is 10,15, 12, 11,20,16,22,25,30 and 35.Fined out the average marks With method and Assumed Mean Method . Q20.Calculate mean with DISCRETE SERISE Marks 10, 20, 30, 40 ,50. No of Students 15, 10, 40, 20, 15. Q21. Calculate mean with FREQUENCY DISTRIBUTION Marks 0 – 4, 4 – 8 ,8 – 12, 12-16 ,16 - 20 No of Students 4, 8, 2, 1, 5. Q22.Individual series The following series show Marks of 9 students .Find the median

Individual series marks. Marks 17 32 35 33 15 21 41 32 1 Q23.Calculate median from following set of data DISCRETE SERISE:Size'X' 5, 6, 7, 8, 9, Frequency(f) 4, 1, 3, 7, 4. Q24. FREQUENCY DISTRIBUTION Calculate median from following set of data FREQUENCY DISTRIBUTION: Size 'X' 0-10, 10- 20, 20 -30, 30-40, 40 -50, Frequency(f) 3, 4, 2, 7, 10. Q25. Calculate value of mode: Marks ; 40, 50, 60, 70, 80, 90, No of students 2, 4, 8, 10, 5, 6 .By Inspection Method and Grouping Method. Q26. Calculate value of mode: Marks 0-10, 10-20, 20-30, 30-40, 40-50, No of students 3, 4, 15, 6, 8. By Inspection Method and Grouping Method. Q27. Calculate coefficient of co-relation given the following data : X ; 2, 3, 4, 5, 6, 7, 8. Y ;4, 7, 8, 9, 10, 14, 18. Q28.Affected by extreme values Find out Karl-Pearson's Coefficient of Correlation : X ; 10, 20, 30, 40, 50. Y; 4, 6, 8, 10, 12. Q29. Calculate coefficient of rank correlation between the marks in economics and statistics as indicated by 8 answer books of each of the two examiners. Statistics ;15, 10, 20, 28, 12, 10, 16, 18.Economics; 16 ,14, 10, 12, 11, 15, 18, 12.

Holiday homework of Accountancy and Business studies of class 11

Accountancy :

1. Comprehensive project of CBSE.
2. Practice for upcoming Half yearly exam.

Business studies:

1. CBSE project to be prepared as per topic assigned.
2. Practice for upcoming Half yearly exam.

XI IP

1. Solve two HALF YEARLY QUES PAPERS in notebook already (shared in whatsapp group) for practice of upcoming Exam

Autumn Break Homework

Class: 11th

Subject: Artificial Intelligence (AI)

1. Prepare notes of Chapter 1 - Communication Skills and Chapter 2 - Self Management Skills.

2. Prepare for Half Yearly Exam.

HOMEWORK OF AUTUMN BREAK 2025-26

XII CS

1. Solve WORKSHEET 1, 2 of UNIT-2 (Computer Networking) shared in Whatsapp group and write in notebook.
2. Solve Question Paper for September monthly test in notebook.

XII IP

1. Solve WORKSHEET shared in Whatsapp group and write in notebook.
2. Solve Question Paper for September monthly test in notebook.

XI CS

1. Solve two HALF YEARLY QUES PAPERS in notebook already (shared in whatsapp group) for practice of upcoming Exam

XI IP

1. Solve two HALF YEARLY QUES PAPERS in notebook already (shared in whatsapp group) for practice of upcoming Exam

Holiday homework of Accountancy and Business studies of class 12

Accountancy :

1. Specific project of CBSE both the projects.
2. Practice for upcoming Pre Board exam.

Business studies:

1. CBSE project to be prepared as per topic assigned.
2. Practice for upcoming Pre Board exam.

AUTUMN BREAK HOME WORK FOR CLASS:-XII ECONOMICS 2025-26

C.B.S.E. PREVIOUS YEAR QUESTIONS

Q1Distinguish between Intermediate and final goods and Distinguish between Stock and flow Variable with examples?Q2.what does GDP deflator Show? How is it estimated? How we Conversion of Nominal GDP into Real GDP? Q3. Explain the Income Method, Production Method and Expenditure Method of estimating national Income with precautions?Q4.Explain only GDP is not the index of welfare of any country.Q5.what is a barter system? What are its draw backs?Q6. State and explain the different Components of money supply?

Q7. Define a Central bank? What are the Functions of Central Bank?Q8. How Commercial banks create Money in the economy?Q 9. What are the objectives of budgetary policy?

Q 10. What is the difference revenue expenditure and capital receipts. between revenue receipts and capital expenditure.Q 11. Give the relationship between revenue deficit and the fiscal deficit Q 11. Explain the role of the government can be though the budget in influencing allocation of resources.Q 12. Explain the role of the government budget in fighting inflationary and deflationary tendencies.Q 13. How is foreign exchange rate determined in the foreign exchange market which is very high?Q 14. Explain the reason for Inverse relationship between Price of a foreign currency and its demand?Q15. Distinguish between current account and capital account of balance of Payment account?Q 16. Explain the effect of appreciation and depreciation of domestic currency on export and Import?Q 17. Name the broad categories of transactions recorded in the 'Capital account 'of the balance of Payment accounts Q 18. Explain the relation between the rise and falls in Price of a foreign currency and its effect on demand and supply of foreign currency? Give two example.Q 19. What is Flexible exchange rate? Describe Merits and demerits of flexible exchange rate system.Q 20. What is floating exchange rate and how it is different from Managed floating exchange rate and what is the role of RBI to control foreign exchange rate.Q 21. Foreign exchange rate in India is on the rise recently, what impact is it likely to have on Import and Export and how?

Q22..Explain the features of Indian Economy on the Eve of Independency.Q 23. Explain the Agricultural Sector on the Eve of Independence.Q 24. Explain the Industrial Sector on the Eve of Independence.Q 25. Explain the Foreign Trade under the British Rule in India. Q 26. Explain the Demographic Profile during the British Rule in India. Q 27. Explain the Occupational Structure on the Eve of Independency.Q 28.What was the Positive impact of the British Rule in India.Q 29. Explain the types of Economics Capitalist, Socialist and Mixed Economies.

Q 30 what is Economic Planning? Explain the Long Period Goals / Objectives of five year planning in India. Q 31. Explain the Success/ Achievement of Planning in India.

Q 32. What is Agrarian Reforms. Explain the Technical Reforms, Institutional Reforms and General Reforms in India. Q 33.What is Green Revolution? What are the Limitation of Green Revolution in India? Q 34.Explain the IPR -1956 (INDUSTRIAL POLICY RESOLUTION-1956) on the Leading role of the State. Q 35. Explain the development of SSI (SMALL SCALE INDUSTRY) to promote the goals of Employment. Q 36.Explain the Strategy of Industrial Growth during the Period 1950-1990 with Good & Bad effect. Q 37. Explain the India "s Foreign at the time of IndependenceQ 38.What is INWARD LOOKING TRADE STRATEGY (IMPORT SUBSTITUTION STRATEGY) With Good and Bad Impact on the domestic Industry.Q 39. what is NEW ECONOMIC POLICY 1991? Why we need for NEP or Economic Reforms. Q 40. What is Liberalisation? Explain Economic Reforms under Liberalisation included with Industrial sector Reforms, Financial Sector Reforms, Fiscal Reforms, and External Sector Reforms. Q 41. What is Privatisation? Why we need for Privatisation? Explain Obvious Gains and Imperative Losses of Privatisation.Q 42.What is Globalisation? Explain Policy Strategies Promoting Globalisation of the Indian Economy.Q 43. Explain the merits and demerits of the LPG Policies in India.

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Q 57. Explain the comparative performance of the Economies of India .Pakistan and China in (a) GDP Growth (b) Structure of Growth (c) Demographic Profile (d) Human Development.

Q 58" a developed countries like USA salaries arehigher than developing economies like India.. 'Evaluate itusing your knowledge of relationship between

human capital formation and economic development.Q59'Current account deficit in an economy must be financed by a corresponding capital account surplus'. Do you agree with the given statement? Give valid reason(s) in support of your answer. Q60(B) State the meanings of the following: (i) Externalities (ii) Operating Surplus (iii)Consumption Goods.Q61 . "With an objective to reduce inflation, Reserve Bank of India may promote the commercial banks to park their surplus funds with it." Discuss the rationale behind the step taken by the Reserve Bank of India.Q62.Elaborate the 'Banker's Bank and Supervisor' function performed by the Reserve Bank of India Q63.'Under the Ayushmaan Bharat Scheme, the Government provides free medicines to the economically backward section of the society'. Identify and discuss the nature of the government expenditure indicated in the given statement.Q64. Giving valid reasons, explain how the following would be treated while estimating domestic income? (i) Payment made by American tourist for goods purchased in India. (ii) Tomatoes grown by Ms. Puja in her kitchen garden. (b) "Machine purchased by a firm is always a capital good." Do you agree with the given statement? Give valid reasons for your answer.Q65 "During the colonial period, a number of socio-economic indicators were in a dilapidated state." List any three such indicators that led to the worsening of India's demographic profile. Q66 "The pre-independent India's occupational structure experienced growing regional variation." Justify the above statement with valid explanation.Q67."Ravya was initially working as an office clerk in a firm. In the pursuit to attain, a higher position and income, she attended a few on-the-job training sessions. These sessions contributed positively to her skills and expertise." Explain the impact of Ravya's decision on human capital formation.Q68."In the late 1970s, China introduced the One-child policy that led to arrest in the population coupled with skewed sex ratio." Justify the given statement with valid arguments in support of your answer.Q69. State and elaborate whether the following statements are true or false, with valid arguments: (i) Agricultural marketing is a process that ensures the transportation of vari us agricultural commodities only. (ii) Jan-Dhan Yojana has been a crucial step for financial resource mobilization in the Indian economy. Q70. "Since independence, the government has been playing an important role in generating employment directly or indirectly." Discuss.Q71.Green revolution transformed India from a subsistent food grain economy to a food surplus economy." Justify the statement, giving reasons in support of your answer.Q72. "In order to protect domestic industries, India followed the regime of restrictions on imports."Briefly outline and discuss such steps taken by the government to promote import substitution policy.Q73."In India, after 1947 land reforms were introduced on a large scale." In the light of the given statement, discuss any one such land reform. (D) "In the post-reform period, the Government of India decided to retain profit-making Public Sector Undertakings (PSUs). It provided a special status to PSUs to enable them to expand in the global market." Do you agree with the given statement? Give valid reasons in support of your answer.

AUTUMN BREAK HOME WORK FOR CLASS:-XII ECONOMICS 2025-26

C.B.S.E. PREVIOUS YEAR QUESTIONS

Q1Distinguish between Intermediate and final goods and Distinguish between Stock and flow Variable with examples?Q2.what does GDP deflator Show? How is it estimated? How we Conversion of Nominal GDP into Real GDP? Q3. Explain the Income Method, Production Method and Expenditure Method of estimating national Income with precautions?Q4.Explain only GDP is not the index of welfare of any country.Q5.what is a barter system? What are its draw backs?Q6. State and explain the different Components of money supply?

Q7. Define a Central bank? What are the Functions of Central Bank?Q8. How Commercial banks create Money in the economy?Q 9. What are the objectives of budgetary policy?

Q 10. What is the difference revenue expenditure and capital receipts. between revenue receipts and capital expenditure.Q 11. Give the relationship between revenue deficit and the fiscal deficit Q 11. Explain the role of the government can be though the budget in influencing allocation of resources.Q 12. Explain the role of the government budget in fighting inflationary and deflationary tendencies.Q 13. How is foreign exchange rate determined in the foreign exchange market which is very high?Q 14. Explain the reason for Inverse relationship between Price of a foreign currency and its demand?Q15. Distinguish between current account and capital account of balance of Payment account?Q 16. Explain the effect of appreciation and depreciation of domestic currency on export and Import?Q 17. Name the broad categories of transactions recorded in the 'Capital account 'of the balance of Payment accounts Q 18. Explain the relation between the rise and falls in Price of a foreign currency and its effect on demand and supply of foreign currency? Give two example.Q 19. What is Flexible exchange rate? Describe Merits and demerits of flexible exchange rate system.Q 20. What is floating exchange rate and how it is different from Managed floating exchange rate and what is the role of RBI to control foreign exchange rate.Q 21. Foreign exchange rate in India is on the rise recently, what impact is it likely to have on Import and Export and how?

Q22..Explain the features of Indian Economy on the Eve of Independency.Q 23. Explain the Agricultural Sector on the Eve of Independence.Q 24. Explain the Industrial Sector on the Eve of Independence.Q 25. Explain the Foreign Trade under the British Rule in India. Q 26. Explain the Demographic Profile during the British Rule in India. Q 27. Explain the Occupational Structure on the Eve of Independency.Q 28.What was the Positive impact of the British Rule in India.Q 29. Explain the types of Economics Capitalist, Socialist and Mixed Economies.

Q 30 what is Economic Planning? Explain the Long Period Goals / Objectives of five year planning in India. Q 31. Explain the Success/ Achievement of Planning in India.

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SUBJECT: ENGLISH (CORE)

1. Read the following chapters and write the summary proceedings (20-30) in each chapter.

A. Going Places
B. A Great Deal Status
C. mum,pennifer's Typists
D. Oh! The Faces of It
E. Memories Of Childhood

2. Complete the Project File on given topics and following as the instructions. **THINGS**

3. Both Darcy and Lacob are physically impaired and merely, it is the responsibility of society to understand and support people who are differently abled. Be that they do not suffer from a sense of alienation. 'Inclusive Education' is a step to bring the people with deformities into the mainstream so as to build up their confidence and morale. Research about inclusive education and suggest other ways who which will help in bringing them in the mainstream.

4. The poet compares the fringe of beauty with 'an endless fountain of immortal drink pouring forth on from the heaven's brink'. In this way the poet underlines the fact that we should preserve and take care of the fringe of beauty. They are gig not for ourselves but also for

our coming generations. Discuss in detail giving instances to support your answer.

3. The story "The Refinal" explores the idea that given the right motivation the human beings possess the innate tendency to redeem themselves from their distracted ways.
The problem in instance speaks on a general level to the entire society, urging for a different outlook towards those maligned individuals who can be redeemed by compassion and understanding. This whole bloom programmes at process thinks the easier value. How do you think society can help individuals, especially juvenile delinquents, from falling prey to petty crimes and bad habits? Discuss in detail giving instances to support your answer.

4. Physically challenged people have to struggle far more than normal ones. The actual pain or inconvenience caused by their physical impairment is often much less than the sense of alienation felt by the persons with disabilities. Yet there are several physically challenged heroic figures who have inspired others in spite of themselves facing many challenges and hurdles in life. Research on any TWO such persons describing their struggle leading them towards victory.

5. Do your research and write stories about conquest of fear and how people have fought with courage. e.g. unsung heroes post- renewal of India's struggle for freedom against the British, their perseverance to achieve their missions, to liberate the oppressed. The chapter BRAVE that you have read in Wings is an apt example of how courage and optimism helps overcome fear. Similarly, there must be more

stories of many unsung freedom fighters. Research and make a project on the same with detail any four

v. _____ Avvai Jennifer is the representative of exploited women in her society. She succumbed to torture and ordeals. In the wake of the twenty first century, we exalt of development but exploit women. Write on women empowerment: why is empowering girls and women so important ... real stories of women empowerment, how world vision is helping empower women....quotes on women empowerment etc. Discuss in detail giving instances to support your answer

vi. _____ Make a list of any TEN characters from the chapters that you have read. Analyse and examine their characters critically and prepare a write up of about 150-180 words of each character pave their abilities why positive and negative aspects of his /characters etc. What would have been your reactions if you were in place of them?

vii. _____ After reading all the chapters of Synthesis, you could realize that

SUCCESSES PREVAILS AND OVERPOWERS ALL THE EVILS. Prove

this assumption by preparing a write up in about 1000 words taking examples from different chapters in support of your answer.

_____

AUTUMN BREAK (2025-26) HOLIDAY'S HOMEWORK
SUBJECT- ENGLISH CORE
CLASS- XII
PART-1 (TO BE DONE IN ENGLISH NOTEBOOK)

1. **Read the following chapters and write the summary points/highlights (25-30) in each chapter.**

   A. **Going Places**
   B. **A Roadside Stand**
   C. **Aunt Jennifer's Tigers**
   D. **On The Face of It**
   E. **Memories Of Childhood**

PART-2 (TO BE COMPLETED IN PROJECT FILE)

ENGLISH PROJECT WORK

PROJECT TOPICS (ANY 2 TO BE DONE)

Kindly follow the instructions properly-

1. Use simple A4 coloured ruled sheets with a double-hole punch file.

2. Choose any 2 topics.

3. File must have-

A. Name and details of student, subject, and subject teacher's name.

B. Project Topic (give a suitable title as per the question chosen, name of the chapter/unit)

C. FIRST FOUR PAGES WILL BE COMMON FORMAT FOR ALL, WHICH WILL BE SENT VERY SHORTLY- Title Page, Certificate of Originality, Index, Bibliography (references of books/websites, etc.) you took the content from.

D. Elaborately research/interview/ survey and write the content.

E. Your project should be HAND-WRITTEN (not typed or printed) in about 1000 words each.

F. THE LAST DATE TO SUBMIT THE PROJECT FILE IS 15/10/2025.

G. Use the given suggested points to complete your write-up.

H. You can take printouts of relevant data, pictures, graphics, etc., suitable for the topic, for pasting.

I. Give numbers to all pages.

J. Detailed points and hints are given with each question. Use these hints to support your answer.

1. **Both Derry and Lamb are physically impaired and lonely. It is the responsibility of society to understand and support people who are differently abled. So that they do not suffer from a sense of alienation. 'Inclusive Education' is a step to bring people with deformities into the mainstream so as to build up their confidence and morale. Research about inclusive education and suggest other ways also which will help in bringing them to the mainstream.**

2. The poet compares the things of beauty with 'an endless fountain of immortal drink pouring unto us from the heaven's brink'. In this way, the poet underlines the fact that we should preserve and take care of things of beauty. They are joy not for ourselves but also for our coming generations. Discuss in detail, giving instances to support your answer.

3. The story 'The Rattrap' explores the idea that, given the right motivation the human beings possess the innate tendency to redeem themselves from their dishonest ways. The peddler's instance speaks on a general level to the entire society, urging for a different outlook towards those maligned individuals who can be redeemed by compassion and understanding. The rehabilitation programmes in prisons follow the same values. How do you think society can help individuals, especially juvenile delinquents, from falling prey to petty crimes and bad habits? Discuss in detail, giving instances to support your answer.

4. Physically challenged people have to struggle far more than the normal ones. The actual pain or inconvenience caused by their physical impairment is often much less than the sense of alienation felt by persons with disabilities. Yet there are several physically challenged heroic figures who have inspired others in spite of themselves, facing many challenges and hurdles in life. Research on any TWO such persons describing their struggle leading them towards victory.

5. Do your research and write stories about the conquest of fear and how people have fought with courage, e.g., unsung heroes (men /women) of India's struggle for freedom against the British, their perseverance to achieve their mission, to liberate the oppressed. The chapter INDIGO that you have read in XII is an apt example of how courage and optimism help overcome fear. Similarly, there must be more

stories of many unsung freedom fighters. Research and make a project on the same. (Write about any four)

6. Aunt Jennifer is the representative of exploited women in her society. She succumbs to torture and ordeals. In the wake of the twenty-first century, we boast of development but exploit women. Write on women empowerment- why is empowering girls and women so important…, real stories of women empowerment, how world vision is helping empower women….quotes on women empowerment, etc. Discuss in detail, giving instances to support your answer.

7. Make a list of any TEN characters from the chapters that you have read. Analyse and examine their characters critically and prepare a write-up of about 100-120 words of each character- your
likes-dislikes-why-positive and negative aspects of the characters, etc. What would have been your reactions if you were in their place?

8. After reading all the chapters of the Syllabus, you could realize that
GOODNESS PREVAILS AND OVERPOWERS ALL THE EVILS. Prove
this assumption by preparing a write-up in about 1000 words, taking examples from different chapters in support of your answer.

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HOLIDAY HOMEWORK FOR AUTUMN BREAK

CLASS:XII

SUBJECT:MATHEMATICS

CONTINUITY AND DIFFRENTIABILITY
1.For what value of k is the following function continuous at x = 2 ?

2.If f(x) = , continuous at x = 1, find the values of a and b.
3. If f(x), defined by the following is continuous at x = 0, find the values of a, b, c

4.If x = find at .
5. If y = , find .
6. If xy + y2 = tanx + y , find .
7. If y = , find .
8.If= a(x – y) , prove that = .
9. Find if (cosx)y = (cosy)x
10.If .

APPLICATIONS OF DERIVATIVES

Find the point on the curve y2 = 8x for which the abscissa and ordinate change at the samerate?

A man 2 metre high walks at a uniform speed of 6km /h away from a lamp post 6 metrehigh.Find the rate at which the length of his shadow increases. Also find the rate at which the tip of the shadow is moving away from the lamp post.

A ladder 5m long is leaning against a wall. Bottom of ladder is pulled along the ground away from wall at the rate of 2m/s. How fast is the height on the wall decreasing when the foot of ladder is 4m away from the wall?

A particle moves along the curve 6 y = x3 + 2., Find the points on the curve at which y-coordinate is changing 8 times as fast as the x-coordinate.

Water is leaking from a conical funnel at the rate of 5 cm3/sec. If the radius of the base of the funnel is 10 cm and altitude is 20 cm, Find the rate at which water level is dropping when it is 5 cm from top.

Find the intervals in which the function f(x) = sin x – cos x, 0< x< 2πisincreasing or decreasing.

Show that the function f(x) = is strictly decreasing on (0, π/2)

Find the intervals in which the function f(x) = increasing or decreasing.

Find the interval in which the function f(x)=2x3 +9x2 +12x +20 is (i) increasing (ii) decreasing

Find the interval in which the function f(x) = (x+1)3(x-1)3

Show that the height of cylinder of maximum volume that can be inscribed in a sphere of radius R is 2R3..

Show that the semivertical angle of a cone of maximum volume and of given slant hight is2.

Length of three sides of a trapezium other than base is equal to 10cm each, then find the area of the trapezium when it is maximum ?

Find the point on the curve y2= 2x which is at minimum distance from the point (1,4)

An open box with a square base is to be made out of a given quantity of card board of area c2 square units. Show that the maximum volume of the box is cubic units.

A window is in the shape of a rectangle surmounted by an equilateral triangle. If the perimeter of the window is 12 m, find the dimensions of the rectangle that will produce the largest area of the window.

DEFINITE INTEGRALS

1. 2. 3.

4. 5. 6.

7. 8. 9.

10, 11. (CBSE-2013)

12.

APPLICATIONS OF INTEGRATION

Q1. Find the area enclosed by curve 4 x 2 + 9 y2 = 36

Q2. The area of the region bounded by the curve $x^2 = 4y$ and the straight line x = 4y – 2 is
Q3. The area enclosed between the graph of y = x3 and the lines x = 0, y = 1, y = 8 is
Q4. The area of the region bounded by the curve $y^2 = x$, the y-axis and between y = 2 and y = 4 is
Q5. Area of region bounded by the curve y2 =4x,and its latus rectum above x axis
Q7. Area of region bounded by curve y=x and y = x3 is
Q8. The area enclosed by the circle x2+y2 = 2 is equal to:
Q9. The area of the region bounded by the parabola y = x2 and y = |x| is
Q10. The area of the region enclosed by the parabola x2 = y, the line y = x + 2 and the x-axis, is

LPP

1
The common region determined by all the constraints including non-negative constraints
x, y ≥ 0 of a linear programming problem is called
Feasible region (b) Feasible solution
(c) Optimal solution (d) Constraints

2
In the feasible region for a LPP is ……, then the optimal value of the objective function
Z = ax + by may or may not exist.
(a) bounded (b) unbounded
(c) in circled form (d) in squared form

3
Z = 250x + 75y is a linear objective function. Variables x and y are called …..
Decision variables (b) Constraints
(c) Constant (d) Objective function

4
Points within and on the boundary of the feasible region represent ……
Infeasible solution (b) Feasible solution

(c) Objective solution (d) None

5
The maximum value of Z = 4x+3y, if the feasible region for an LPP is as shown below, is

112 (b) 72 (c) 110 (d) 100

6
Corner points of the feasible region determined by the system of linear constraints are (0,3),(1,1) and (3,0). Let Z= px + qy, where p, q>0. Condition on p and q so that the minimum of Z occurs at (3,0) and (1,1) is
(a) p=2q (b) p= q/2 (c) p=3q (d) p=q

7
Write the linear inequations for which the shaded area in the following figure is the solution set

$5x + y \leq 100$, $x + y \geq 60$ (c) $5x + y \geq 100$, $x + y \leq 60$
$5x + y \geq 60$, $x + y \leq 100$ (d) $5x + y \leq 100$, $x + y \leq 60$

8
In figure, the feasible region (shaded) for a LPP is shown. Determine the maximum and minimum
value of Z = x+2y.

8 , 3.2 (b) 9 , 3.14 (c) 9 , 4 (d) None

9
Solve the following Linear Programming Problem :
Max. $Z = x + 2y$
Subject to the constraints : $x + y \leq 50$, $3x + y \leq 90$, $x \geq 0$, $y \geq 0$

10
Solve the following linear programming problem graphically:
Maximise $Z = 3x + 4y$
subject to the constraints : $x + y \leq 4$, $x \geq 0$, $y \geq 0$.

11
Solve the following linear programming problem graphically:
Maximise Z = 4x + y
subject to the constraints:x + y ≤ 50 , 3x + y ≤ 90 , x ≥ 0, y ≥ 0

12
Find the minimum value of Z = 11x + 7y
Subject to x + 3y ≤ 9 , x + y ≤ 5 , x ≥ 0 , y ≥ 0

13
Solve the Linear Programming graphically:
Maximize Z= 9x+3y subject to2x + 3y ≤ 13 , 3x + y ≤ 5 , x ≥0 , y ≥0

ANSWER :
1 (a) 2 (b) 3 (a) 4 (b) 5 (a) 6 (b) 7 (d) 8.(b) 9. Max. z =100 10. Max. z =16
11 Max Z = 110 12. Min Z = 21 13. Max Z = 15

HOME Assignment For Autumn Break 2025– Physics (Class 12, CBSE)

Chapters Covered: Electrostatics, Electrostatic Potential, Current Electricity, Magnetic Effects of Current, Electromagnetic Induction, Ray Optics
Section A – Conceptual Understanding (Short Answer Type, 2–3 marks)
Define electric flux. State Gauss's law in electrostatics. (CBSE 2019)
State the principle of working of a transformer.
Explain why sky appears blue and the sun looks reddish during sunrise and sunset.
Derive an expression for force per unit length between two long parallel current carrying conductors. (CBSE 2018)
Section B – Application Based Questions (Numerical/Derivations, 3–5 marks)
A point charge q is placed at the center of a cube. Find the electric flux through one face of the cube. (CBSE 2020)
The emf of a cell is measured using a potentiometer by connecting it in series with a resistance box and a driver cell. Explain the principle and method.
A circular coil of radius 10 cm and 100 turns carries a current of 3 A. Find the magnetic field at the center of the coil.
The refractive index of the material of a prism is √3. Find the angle of minimum deviation if the prism angle is 60°.
A conducting rod of length 0.5 m is moved with a velocity of 2 m/s perpendicular to a uniform magnetic field of 0.4 T. Calculate the emf induced in the rod. (CBSE 2017)

Section C – Previous Year CBSE Board Questions (5–6 marks)
Two capacitors of capacitance 4 μF and 6 μF are connected in series across a 12 V battery. Calculate: (i) the effective capacitance, (ii) the potential difference across each capacitor, and (iii) the energy stored in the combination. (CBSE 2018)
(i) Derive an expression for the mutual induction of two long coaxial solenoids.
(ii) A circular loop of radius 8.0 cm and resistance 2 Ω is placed in a uniform magnetic field of 0.2 T. The field is perpendicular to the plane of the loop and changes direction from upward to downward in 0.01 s. Find the magnitude of charge that flows through the loop during this time. (CBSE 2019)
(i) State Huygens' principle.
(ii) Using this principle, explain diffraction of light at a single slit.
(iii) Draw the intensity pattern observed on the screen. (CBSE 2020)
Draw the ray diagram for the formation of image in a compound microscope. Derive an expression for its magnifying power. (CBSE 2016)
Section D – Tech-Integration Task (Project-Based, 4–5 marks)
Use any of the following digital tools (GeoGebra / PhET simulation / Desmos / Tinkercad) to perform ONE task and submit screenshots:
Simulate electric field lines for two like and unlike charges.
Design a virtual experiment to verify Ohm's law.
Use a ray-optics simulator to show image formation through a convex lens.
Model an electromagnetic induction setup with changing magnetic flux.

Holiday Homework 2025-26
Class XII

BIOLOGY
1. Complete practical work.
2. Learn the next chapter & prepare 10 questions from the chapter.
3. Practice all the diagrams in the lab side notebook.

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HOMEWORK OF AUTUMN BREAK 2025-26
XII CS

Solve WORKSHEET 1, 2 of UNIT-2 (Computer Networking) shared in Whatsapp group and write in notebook.
Solve Question Paper for September monthly test in notebook.

Holiday home work
CHEMISTRY XII
1.Solve pt-2 exam in your fair notebook.
2.read chapter amines

3.solve this pyq

HOLIDAY HOMEWORK FOR AUTUMN BREAK

CLASS:XII

SUBJECT:MATHEMATICS

CONTINUITY AND DIFFRENTIABILITY

1.For what value of k is the following function continuous at x = 2 ?

$$f(x)=\begin{cases}2x+1\,;\,x<2\\ \quad k\,;\,x=2\\ 3x-1\,;\,x>2\end{cases}$$

2.If f(x) = $\begin{cases}3ax+b, & \text{if } x>1\\ 11 & \text{if } x=1\\ 5ax-2b, & \text{if } x<1\end{cases}$, continuous at x = 1, find the values of a and b.

3. If f(x), defined by the following is continuous at x = 0, find the values of a, b, c

$$f(x)=\begin{cases}\dfrac{\sin(a+1)x+\sin x}{x} & ,x<0\\ c & ,x=0\\ \dfrac{\sqrt{x+bx^2}-\sqrt{x}}{bx^{3/2}} & ,x>0\end{cases}$$

4.If $x=a\left(\cos\theta+\log\tan\dfrac{\theta}{2}\right)$ and $y=a\sin\theta$ find $\dfrac{dy}{dx}$ at $\theta=\dfrac{\pi}{4}$.

5. If $y=(\log x)^{\cos x}+\dfrac{x^2+1}{x^2-1}$, find $\dfrac{dy}{dx}$.

6. If $xy+y^2=\tan x+y$, find $\dfrac{dy}{dx}$.

7. If $y=\sqrt{x^2+1}-\log\left(\dfrac{1}{x}+\sqrt{1+\dfrac{1}{x^2}}\right)$, find $\dfrac{dy}{dx}$.

8.If $\sqrt{1-x^2}+\sqrt{1-y^2}=a(x-y)$, prove that $\dfrac{dy}{dx}=\sqrt{\dfrac{1-y^2}{1-x^2}}$.

9. Find $\dfrac{dy}{dx}$ if $(\cos x)^y=(\cos y)^x$

10.If $x^p.y^q=(x+y)^{p+q}$, prove that $\dfrac{dy}{dx}=\dfrac{y}{x}$.

APPLICATIONS OF DERIVATIVES

1) Find the point on the curve $y^2 = 8x$ for which the abscissa and ordinate change at the samerate?

2) A man 2 metre high walks at a uniform speed of 6km /h away from a lamp post 6 metrehigh.Find the rate at which the length of his shadow increases. Also find the rate at which the tip of the shadow is moving away from the lamp post.

3) A ladder 5m long is leaning against a wall. Bottom of ladder is pulled along the ground away from wall at the rate of 2m/s. How fast is the height on the wall decreasing when the foot of ladder is 4m away from the wall?

4) A particle moves along the curve $6y = x^3 + 2$., Find the points on the curve at which y-coordinate is changing 8 times as fast as the x-coordinate.

5) Water is leaking from a conical funnel at the rate of 5 cm^3/sec. If the radius of the base of the funnel is 10 cm and altitude is 20 cm, Find the rate at which water level is dropping when it is 5 cm from top.

6) Find the intervals in which the function $f(x) = \sin x - \cos x$, $0 < x < 2\pi$isincreasing or decreasing.

7) Show that the function $f(x) = \dfrac{\sin x}{x}$ is strictly decreasing on $(0, \pi/2)$

8) Find the intervals in which the function $f(x) = \dfrac{\log x}{x}$ increasing or decreasing.

9) Find the interval in which the function $f(x)=2x^3+9x^2+12x+20$ is (i) increasing (ii) decreasing

10) Find the interval in which the function $f(x) = (x+1)^3(x-1)^3$

11) Show that the height of cylinder of maximum volume that can be inscribed in a sphere of radius R is $\frac{2R}{\sqrt{3}}$.

12) Show that the semivertical angle of a cone of maximum volume and of given slant hight is $\tan^{-1}\sqrt{2}$.

13) Length of three sides of a trapezium other than base is equal to 10cm each, then find the area of the trapezium when it is maximum ?

14) Find the point on the curve $y^2 = 2x$ which is at minimum distance from the point (1,4)

15) An open box with a square base is to be made out of a given quantity of card board of area c^2 square units. Show that the maximum volume of the box is $\dfrac{c^3}{6\sqrt{3}}$ cubic units.

16) A window is in the shape of a rectangle surmounted by an equilateral triangle. If the perimeter of the window is 12 m, find the dimensions of the rectangle that will produce the largest area of the window.

DEFINITE INTEGRALS

1. $\displaystyle\int_0^{\pi/2} \frac{\sqrt{\tan x}}{1+\sqrt{\tan x}}\,dx$

2. $\displaystyle\int_1^{3} \frac{\sqrt{4-x}}{\sqrt{x}+\sqrt{4-x}}\,dx$

3. $\displaystyle\int_0^{\pi/2} \frac{\sin^4 x}{\sin^4 x+\cos^4 x}\,dx$

4. $\displaystyle\int_0^{\pi/2} \frac{x}{\sin x+\cos x}\,dx$

5. $\displaystyle\int_0^{\pi} \frac{x\sin x}{1+\cos^2 x}\,dx$

6. $\displaystyle\int_0^{\pi} \frac{x\tan x}{\sec x.\operatorname{cosec}}\,dx$

7. $\displaystyle\int_{\pi/6}^{\pi/3} \frac{dx}{1+\sqrt{\tan x}}$ 8. $\displaystyle\int_0^{\pi} \frac{x}{1+\sin x}\,dx$

9. $\displaystyle\int_0^{\pi} \frac{x+\sin x}{1+\cos x}\,dx$

10. $\displaystyle\int_0^{\pi/4} \log(1+\tan x)\,dx$

11. $\int_0^4 (|x|+|x-2|+|x-4|)\,dx$ (CBSE-2013)

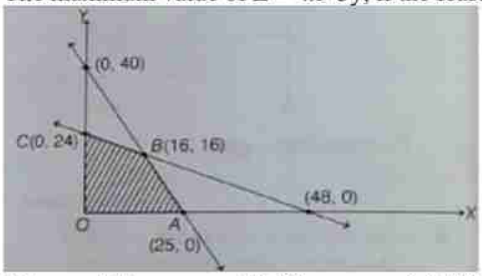
12. $\int_2^5 (|x-2|+|x-3|+|x-4|)dx$

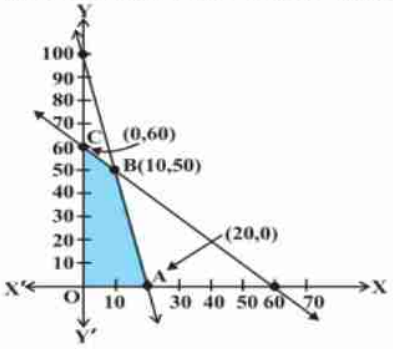
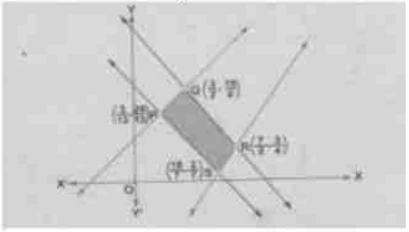
APPLICATIONS OF INTEGRATION

Q1. Find the area enclosed by curve $4x^2 + 9y^2 = 36$

Q2. The area of the region bounded by the curve $x^2 = 4y$ and the straight line $x = 4y - 2$ is
Q3. The area enclosed between the graph of $y = x^3$ and the lines $x = 0$, $y = 1$, $y = 8$ is
Q4. The area of the region bounded by the curve $y^2 = x$, the y-axis and between $y = 2$ and $y = 4$ is
Q5. Area of region bounded by the curve $y^2 = 4x$,and its latus rectum above x axis
Q7. Area of region bounded by curve $y=x$ and $y = x^3$ is
Q8. The area enclosed by the circle $x^2+y^2 = 2$ is equal to:
Q9. The area of the region bounded by the parabola $y = x^2$ and $y = |x|$ is
Q10. The area of the region enclosed by the parabola $x^2 = y$, the line $y = x + 2$ and the x-axis, is

LPP

1	The common region determined by all the constraints including non-negative constraints $x, y \geq 0$ of a linear programming problem is called (a) Feasible region (b) Feasible solution (c) Optimal solution (d) Constraints	
2	In the feasible region for a LPP is ……, then the optimal value of the objective function $Z = ax + by$ may or may not exist. (a) bounded (b) unbounded (c) in circled form (d) in squared form	
3	$Z = 250x + 75y$ is a linear objective function. Variables x and y are called ….. (a) Decision variables (b) Constraints (c) Constant (d) Objective function	
4	Points within and on the boundary of the feasible region represent …… (a) Infeasible solution (b) Feasible solution (c) Objective solution (d) None	
5	The maximum value of $Z = 4x+3y$, if the feasible region for an LPP is as shown below, is  (a) 112 (b) 72 (c) 110 (d) 100	
6	Corner points of the feasible region determined by the system of linear constraints are (0,3),(1,1) and (3,0). Let $Z= px + qy$, where $p, q>0$. Condition on p and q so that the minimum of Z occurs at (3,0) and (1,1) is (a) $p=2q$ (b) $p= q/2$ (c) $p=3q$ (d) $p=q$	

7	Write the linear inequations for which the shaded area in the following figure is the solution set  (a) $5x + y \leq 100$, $x + y \geq 60$ (c) $5x + y \geq 100$, $x + y \leq 60$ (b) $5x + y \geq 60$, $x + y \leq 100$ (d) $5x + y \leq 100$, $x + y \leq 60$	
8	In figure, the feasible region (shaded) for a LPP is shown. Determine the maximum and minimum value of $Z = x+2y$.  (a) 8 , 3.2 (b) 9 , 3.14 (c) 9 , 4 (d) None	
9	Solve the following Linear Programming Problem : Max. $Z = x + 2y$ Subject to the constraints : $x + y \leq 50$, $3x + y \leq 90$, $x \geq 0$, $y \geq 0$	
10	Solve the following linear programming problem graphically: Maximise $Z = 3x + 4y$ subject to the constraints : $x + y \leq 4$, $x \geq 0$, $y \geq 0$.	
11	Solve the following linear programming problem graphically: Maximise $Z = 4x + y$ subject to the constraints:$x + y \leq 50$, $3x + y \leq 90$, $x \geq 0$, $y \geq 0$	
12	Find the minimum value of $Z = 11x + 7y$ Subject to $x + 3y \leq 9$, $x + y \leq 5$, $x \geq 0$, $y \geq 0$	
13	Solve the Linear Programming graphically: Maximize $Z= 9x+3y$ subject to$2x + 3y \leq 13$, $3x + y \leq 5$, $x \geq 0$, $y \geq 0$	

ANSWER :

1 (a) 2 (b) 3 (a) 4 (b) 5 (a) 6 (b) 7 (d) 8.(b) 9. Max. z =100 10. Max. z =16
11 Max Z = 110 12. Min Z = 21 13. Max Z = 15