

PM SHRI KENDRIYA VIDYALAYA PERAMBALUR
 SUMMER VACATION HOMEWORK
Class XII B (COMMERCE)
Session: 2026-2027

SUBJECT: ENGLISH

Choose any one of the 16 fun tasks given on the blog maintained by Joseph Cheriyan PGT English KV PBLR.

BLOG: englishwithjc.blogspot.com

SUBJECT: ACCOUNTANCY

Lesson1 Fundamentals of partnership

Lesson 2 Goodwill calculation

Mcqs,20 Qns, Statement, 5Qns Assertion and Reasoning 10 Qns Numericals all topics

5 Qns each including CBSE previous questions

SUBJECT: INFORMATICS PRACTICES (Code 065)

 Write neatly in your IP Holiday Homework notebook. Do NOT copy. Originality will be checked.

SECTION A — Multiple Choice Questions (MCQ)

Choose the correct option. Write the option letter AND the text of your answer as per CBSE pattern.

Q1. What is the DEFAULT index type for a Pandas Series if not explicitly specified?

- (a) String labels starting from 'a'
- (b) Integer labels starting from 0
- (c) Float labels starting from 0.0
- (d) Custom user-defined index

Answer: _____

Q2. While creating a Pandas Series using a dictionary, the dictionary KEYS become the:

- (a) Values of the Series
- (b) Index (labels) of the Series
- (c) Column names of the Series
- (d) Data types of the Series

Answer: _____

Q3. Which attribute of a Pandas DataFrame is used to get the NUMBER OF ROWS AND COLUMNS as a tuple?

- (a) df.size
- (b) df.ndim
- (c) df.shape
- (d) df.info()

Answer: _____

Q4. In Pandas, the tail() function without any argument displays the last:

- (a) 3 rows
- (b) 10 rows
- (c) 5 rows
- (d) 1 row

Answer: _____

SECTION B — Assertion & Reasoning Questions

Read both Assertion (A) and Reason (R). Choose the correct option:

- (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.

Q1.

Assertion (A): We can add a new column to an existing Pandas DataFrame.

Reason (R): DataFrames are size-mutable, meaning columns can be added or removed after creation.

Answer: _____

Q2.

Assertion (A): The df.size attribute in Pandas returns the number of rows and columns as a tuple.

Reason (R): df.size returns the total number of elements (rows × columns), not a tuple. df.shape returns the tuple.

Answer: _____

Q3.

Assertion (A): Slicing can be used to extract a specific portion from a Pandas Series.

Reason (R): A Pandas Series is a 1-dimensional labeled array that supports both integer and label-based slicing.

Answer: _____

Q4.

Assertion (A): In a Pandas Series created from a dictionary, the dictionary values become the index of the Series.

Reason (R): In a Pandas Series created from a dictionary, the dictionary KEYS become the index, not the values.

Answer: _____

Q5.

Assertion (A): A Pandas DataFrame can have columns of different data types.

Reason (R): DataFrame is a 2-dimensional heterogeneous tabular structure where each column can hold a different data type.

Answer: _____

SECTION C — Case-Based Questions

Read each case carefully and answer the questions that follow:

CASE 1: Fruit Shop — Pandas Series

Scenario

Arjun owns a fruit shop and wants to track the daily sales of fruits using Pandas Series. He writes the following Python code:

```
import pandas as pd
import numpy as np
arr = np.array([150, 200, 80, 320, 110])
fruits = ['Mango', 'Apple', 'Guava', 'Banana', 'Orange']
sales = pd.Series(arr, index=fruits)
print(sales)
print('---')
print(sales[sales > 150])
print('---')
print(sales.head(3))
```

QC1.1. Write the complete output of the above code.

QC1.2. What type of indexing is used in `sales[sales > 150]`? Explain how it filters data.

CASE 2: Movie Database — Pandas DataFrame

Scenario

A teacher asks students to create a DataFrame `df` for a movie database. The DataFrame has columns: Title, Year, Rating, Genre. Use the following data to create the DF.

```
'Title':  ['Dangal', 'RRR', 'KGF', 'Uri', '12th Fail'],
'Year':   [2016, 2022, 2018, 2019, 2023],
'Rating': [8.4, 7.8, 8.2, 8.3, 9.0],
'Genre':  ['Drama', 'Action', 'Action', 'War', 'Drama']
```

QC2.1. Write pandas program to create the Dataframe.

QC2.2. Write the complete output of the above program.

SECTION D — Competency-Based Questions

Higher-Order Thinking Questions (HOTS) — Apply, Analyse, Evaluate. Answer in 3-5 sentences with examples.

QD1. Differentiate between a Pandas SERIES and a Pandas DATAFRAME in terms of dimensions, creation syntax, and use cases. Give one real-world example for each.

QD2. Explain THREE different ways to create a Pandas Series in Python. Write code snippets for each: (i) from an ndarray (ii) from a dictionary (iii) from a scalar value with a custom index.

QD3. Rohan is a data analyst. He has a DataFrame `df` with columns: EmpID, Name, Department, Salary. Write Python code using Pandas to: (i) Display rows where Salary > 50000 (ii) Add a new column 'Tax' = Salary × 0.1 (iii) Delete the column 'EmpID' (iv) Display the last 3 rows.

QD4. Explain the difference between `df.loc[]` and `df.iloc[]` in Pandas with one example each. Also explain what happens when you use `df.loc[2:4]` vs `df.iloc[2:4]` — do they include the last index?

QD5. What are the head() and tail() functions in Pandas?

SECTION E — Programming Questions

Four sub-types: (i) Output Finding (ii) Error Finding & Correction (iii) DataFrame. All in Python using Pandas.

PART E-I — Find the Output.

QP1. Write the output of the following code:

```
import pandas as pd
s1 = pd.Series([1, 2, 2, 7, 'Sachin', 77.5])
print(s1.head())
print('---')
print(s1.head(3))
print('---')
print(s1.dtype)
```

QP2. Find the complete output of this Series operation code:

```
import pandas as pd
import numpy as np
S1 = pd.Series(data=range(31, 2, -6), index=[x for x in 'aeiou'])
print(S1)
print('---')
print(S1['e':'o'])      # label-based slicing
print('---')
print(S1 * 2)
```

PART E-II — Error Finding & Correction

QP3. The following code has SYNTACTICAL and LOGICAL errors. Rewrite the corrected code and UNDERLINE all corrections:

```
# Rohit is trying to create a Pandas Series from scalar values.
import pandas as pd
S1 = pd.Series(14 index = ['a', 'b', 'c'])
print(S1)
S2 = pd.Series([10 20 30 40 50])
print(S2.Head())
print(S2.tail(2))
```

PART E-III — Write the Programs

QP4. Write a complete Python program to create the following DataFrame using a DICTIONARY OF SERIES, then display it:

City	State	Population (Lakh)	Zone
Mumbai	Maharashtra	204	West
Delhi	Delhi	190	North
Bengaluru	Karnataka	132	South
Hyderabad	Telangana	101	South

QP5. Write a Python program to create a Pandas Series named `S1` from an ndarray with values [10, 20, 30, 40, 50] and indices ['A','B','C','D','E']. Then: (i) Display elements with index labels 'B' to 'D' using label-based slicing. (ii) Display only elements greater than 25. (iii) Multiply all values by 3 and display the result. (3 marks)

◆ Happy Analysing Data! Explore. Visualise. Discover. ◆

WORKSHEET-1

CHAPTER: NATURE AND SIGNIFICANCE OF MANAGEMENT

SUB. TOPICS:

a. *Management - concept, objectives, and importance.*

b. *Management as Science, Art and Profession.*

Time allowed: 20 minutes

Max.mark-20

Q1	Assertion (A): Management aims to achieve organizational goals efficiently and effectively. Reason (R): Efficiency in management refers to doing the right tasks to achieve goals. 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
Q2	A manager applies theoretical knowledge creatively to solve unique problems in the organization. Which aspect of management is highlighted in this scenario?	1
Q3	Case: An individual obtains a formal management degree and joins a professional association before taking up a managerial role. Which aspect of management is depicted here?	1
Q4	ABC Ltd. has been facing challenges in meeting its production targets. The management decided to implement new strategies to improve efficiency and effectiveness. a. Which aspect of management is ABC Ltd. focusing on by implementing new strategies? b. By aiming to meet production targets, which management objective is ABC Ltd. addressing?	1
Q5	Mr. Anil, a production manager, was able to complete his team's target before the deadline. However, he used more resources than allocated, resulting in increased costs. Identify whether Mr. Anil was effective, efficient, or both. Justify your answer.	3
Q6	XYZ Corporation is expanding its operations into new markets. The senior management team believes that while they are skilled at making strategic decisions, they often face challenges in executing those decisions at lower levels of the organization. Middle managers report a lack of alignment between the organization's goals and the day-to-day activities of the workforce. Discuss the nature of management as a science, art, and profession. How can these aspects help XYZ Corporation align its strategies and operations?	3
Q7	LMN Ltd. is an organization with three layers of management: top-level	4

(executives), middle-level (department heads), and lower-level (supervisors). The communication between the levels is poor, causing delays in decision-making and confusion among employees. How can LMN Ltd. improve communication and coordination between the different levels of management?	
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WORKSHEET-2

CHAPTER: NATURE AND SIGNIFICANCE OF MANAGEMENT

SUB. TOPIC: *Levels and Functions of management, Coordination.*

TIME: 20 MIN.

MAX MARKS: 20 Marks

MAX MARKS: 20 Marks

Q1	Assertion (A): Coordination is considered the essence of management. Reason (R): Coordination is a separate function performed by a particular level of management. 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												
Q2	Match the management levels with their typical titles: <table><tr><td>Column A (Management Level)</td><td>Column B (Typical Titles)</td></tr><tr><td>A. Top-Level Management</td><td>1. Department Head, Branch Manager</td></tr><tr><td>B. Middle-Level Management</td><td>2. Supervisor, Foreman</td></tr><tr><td>C. Lower-Level Management</td><td>3. CEO, Managing Director</td></tr></table>	Column A (Management Level)	Column B (Typical Titles)	A. Top-Level Management	1. Department Head, Branch Manager	B. Middle-Level Management	2. Supervisor, Foreman	C. Lower-Level Management	3. CEO, Managing Director	1				
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A. Top-Level Management	1. Department Head, Branch Manager													
B. Middle-Level Management	2. Supervisor, Foreman													
C. Lower-Level Management	3. CEO, Managing Director													
Q3	Assertion (A): Top-level management is responsible for setting the organization's overall objectives. Reason (R): Top-level managers handle day-to-day operational tasks. 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												
Q4	Match the functions of management with their descriptions: <table><tr><td>Column A (Function)</td><td>Column B (Description)</td></tr><tr><td>A. Planning</td><td>1. Arranging resources to achieve objectives</td></tr><tr><td>B. Organizing</td><td>2. Recruiting and training personnel</td></tr><tr><td>C. Staffing</td><td>3. Deciding in advance what needs to be done</td></tr><tr><td>D. Directing</td><td>4. Guiding and supervising employees</td></tr><tr><td>E. Controlling</td><td>5. Monitoring performance and making corrections</td></tr></table>	Column A (Function)	Column B (Description)	A. Planning	1. Arranging resources to achieve objectives	B. Organizing	2. Recruiting and training personnel	C. Staffing	3. Deciding in advance what needs to be done	D. Directing	4. Guiding and supervising employees	E. Controlling	5. Monitoring performance and making corrections	1
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D. Directing	4. Guiding and supervising employees													
E. Controlling	5. Monitoring performance and making corrections													
Q5	ABC Ltd. is a manufacturing company. The CEO has noticed that while their production process is efficient, employees often lack clear direction, and there is little coordination between departments. The company has recently grown and expanded into new markets, but there is confusion about roles, tasks, and goals among staff. How can ABC Ltd. improve coordination among departments and better direct its employees to ensure a more effective management structure?	3												
Q6	XYZ Corp. is facing challenges in achieving its business goals. The top management has not developed clear goals for the departments, and there is a lack of clarity in how resources are being allocated. As a result, the company is	3												

	struggling with inefficiencies and a lack of focus. What management functions should XYZ Corp. focus on to improve its organizational efficiency and ensure goals are met effectively?	
Q7	PQR Corporation has noticed that despite having a clear strategic plan, the execution is often inconsistent. There is no clear process to ensure that tasks are being coordinated properly across different departments. As a result, the execution of the plan is slow, and the company is missing deadlines. How can PQR Corporation improve coordination across departments to ensure that its strategic plans are executed more efficiently?	4
Q8	DEF Solutions is facing issues with their management functions, particularly in terms of planning and controlling. The company has not set clear long-term goals, and the lack of control systems has led to resource wastage and missed deadlines. The company also struggles to align employee efforts with the organizational objectives. Analyse the challenges DEF Solutions faces in planning, organizing, staffing, directing, and controlling. What should the company do to improve its management processes and ensure better alignment between goals and execution?	6

CHAPTER: PRINCIPLES OF MANAGEMENT

Max. Marks 2014

5	Sanjeev Ltd. was engaged in the business of manufacturing electronic component. It's business was expanding due to increased demand for AC. The competition was also increasing. In order to keep its market share intact, the company directed its workforce to work overtime. But this resulted in many problems. Due to increased pressure of work the efficiency of workers declined. Sometimes, the subordinates had to work for more than one superiors. The workers were becoming indiscipline. The spirit of teamwork had begun decline. Identify any three principles of management (as given by Henry Fayol) which were being violated, quoting the lines from the above case.	3
6	Hina & Hitesh are typists in a company having the same educational qualification. Hina is getting Rs. 3000 per month and Hitesh is getting Rs. 4000 per month as salary for the same work hours. Which principle of management is violated in this case? Name the principle and explain it.	3
7	 (a) From the above picture, identify and explain the principle of management and its two positive effects.	4
8	Gauri has been appointed as the chief organizer of a cultural event. She decides to execute her work by putting into practice the various techniques of scientific management. On the basis of several observations, she is able to determine that the standard time taken by the security officer at the gate to check the credentials of each visitor is 30 seconds. So she decides to employ two persons on this job for every function along with the other necessary supporting staff. She considers the fact that every day, the functions will take place in three shifts of four hours each, therefore it is important to give breaks to the supporting staff even in a single shift to take her/his lunch etc. Moreover, on introspection, she determines that the best way to distribute refreshment boxes to the visitors will be to hand it over to them at the exit gate as it would help to save time and eliminate any kind of confusion. In the context of the above case: Identify and explain the various techniques of work study which have been put into practice by Gauri.	6

Section-A

INTRODUCTORY MACROECONOMICS

UNIT 1- NATIONAL INCOME AND RELATED AGGREGATES

WORK SHEET -1

Name of the Student _____

Roll No. _____

Time: 30 Min.

Max. Marks: 25

1. Due to 'Covid 19' pandemic a lot of Indians sent back to India. As a result, NRIs have to come back and have been staying in India and working from home. Identify which statement regarding their status in India is true? 1

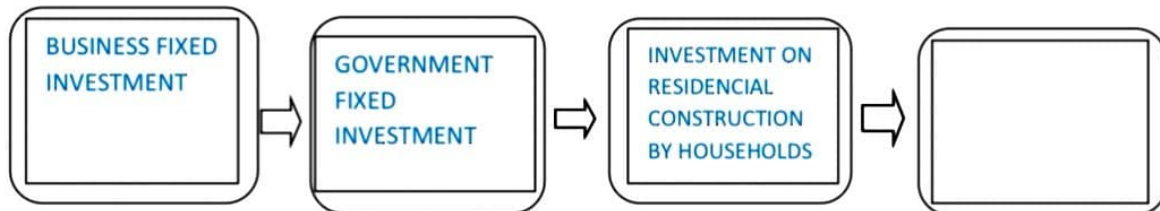
- a) They are treated as normal residents of India.
- b) Their income will be treated as factor income from abroad.
- c) Their income will be treated as factor income to abroad.
- d) No effect on National income of India.

2. **Statement-1:** NDP at factor cost is the income earned by the factors in the form of wages, profits, rent, interest, etc., within the domestic territory of a country or abroad.

Statement-2: If the country is not able to replace the capital stock lost through depreciation, then GDP will fall. 1

- (a) Both Statement 1 & 2 are True
- (b) Both Statement 1 & 2 are False
- (c) Statement-1 is True but Statement-2 is False
- (d) Statement-2 is True but Statement-1 is False

3. Picture based questions 1



On the basis of the above chart answer the following question:

- (a) Gross domestic capital formation
- (b) Gross domestic fixed capital formation
- (c) Final consumption expenditure
- (d) None of these

4. Journey of Bread:

A Farmer grows wheat of ₹ 10000 in his farm. The flour mill owner purchases this wheat and produces the flour of ₹ 25000. The bakery shop purchases this flour to produce bread of ₹ 40000 and sells these to the consumer. What is the total value added in the Journey of bread? 1

5. A firm produces ₹ 100 worth of goods per year, ₹ 20 is the value of intermediate goods used by it during the year and ₹ 10 is the value of capital consumption. The net value added will be:

1

- (A) Rs. 70 (B) Rs. 80 (C) Rs. 100 (D) Rs. 130

6. "Machine purchased is always a final good", Do you agree? Give reasons for your answer? 3

7. Classify the following as intermediate goods or final goods:

3

- a) Paper purchased by a publisher
- b) Milk purchased by a household
- c) Computers installed in an office

8. Read the following news report and answer the questions that follow.

4

In India, flattening sequential recovery, accelerating inflation and a weak labour market will Continue to act as an impediment to sustained economic revival. Capital goods and consumer durable goods have witnessed negative growth rate in double digits. The government might also need to look at policies to boost consumption by the poor, who have a much higher Marginal Propensity to Consume rather than thinking about the relatively well off, such as government employees, who were the target of expenditure boosting measures. Overall, the amount of demand stimulus is underwhelming and we view the impact on both fiscal and growth as quite limited.

Source: Hindustan Times; October 13th, 2020

...

(a) Refrigerator purchased by a confectionery shop is a _____ good.

- (i) capital
- (ii) intermediate
- (iii) non-durable
- (iv) None of these

(b) Which of the following is/are non-durable good(s)?

- (i) Milk
- (ii) Bread
- (iii) Both (i) and (ii)
- (iv) None of these

(c) Real growth of an economy can only be measured through _____ at Constant prices.

- (i) per capita income
- (ii) national income
- (iii) nominal income
- (iv) real income

(d) Goods purchased for the purpose of are final goods.

- (i) satisfaction of wants
- (ii) investment in firm
- (iii) Both (i) and (ii)
- (iv) None of these

NATIONAL INCOME AND ITS AGGREGATES-
BASIC CONCEPTS OF NATIONAL INCOME

Name Of The Student _____

Roll No. _____

Time: 30 Min.

Max. Marks: 25

1. Real flow is the flow of - 1
A. Goods only
B. Money only
C. Services only
D. Goods and services.
2. Injections are the macroeconomic variables which lead to a rise in the level of output in the economy. Leakages are the macroeconomic variables which lead to a fall in the level of output in the economy. - The circular flow of income remains stable if _____ are exactly equal to injections. (Fill in the blank) 1
- Q3. Read the following statements and choose the correct alternatives among those given below: 1
- Statement 1:** Gross investment includes only inventory investment.
Statement 2: Gross investment shows net addition to the existing capital stock.
- Alternatives:*
- A. Both the statements are true
B. Both the statements are false
C. Statement 1 is true and statement 2 is false
D. Statement 2 is true and statement 1 is false
4. Water in a stream is a - 1
A. Stock concept
B. Non-economic concept
C. Flow concept
D. Hypothetical concept
5. As a result of double counting, national income is - 1
A. Over estimated
B. Under estimated
C. Correctly estimated
D. Not estimated for entire year of accounting
6. Sugar purchased by a sweet shop is ____ good while it is a ____ good when it is purchased by a consumer. 1
A. capital, final
B. final, Intermediate
C. intermediate, final
D. final, producer
7. Change in stock is negative when: 1
A. Closing stock > opening stock
B. Closing stock < opening stock
C. Closing stock = 0
D. Opening stock = 0
8. **Assertion (A):** The goods which are used either for resale or for further production in the same year are intermediate goods. 1

Reason(R): Intermediate goods are included in National Income.

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 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..

9. Giving reasons, state whether the following are included or not in the domestic territory of India 3

(a) Branch of an American Bank in India.

(b) Russian embassy in India.

(c) Indian embassy in Japan

10. "Increase in domestic income always leads to an Increase in National income." Do you agree with the given statement? Support your answer with a valid example. 4

11. **Read the following passage:**

National Income of India constitutes total amount of income earned by the whole nationals of our country and originated both within and outside its territory during a particular year. The National Income Committee in its first report wrote 'A national income estimate measures the volume of commodities and services turned out during a given period, without duplication'. The estimates of National Income depict the clear picture about standard of living of the community. The national income statistics diagnose the economic else of the country and at the same time suggest remedies. The rate of savings and investment in an economy also depends on the national income of the country.

Moreover, the national income measures the flow of all commodities and services produced in an economy. Thus, the National Income is not stock but a flow. It measures the total productive power of the community during given period. Further, The National Income Committee has rightly observed, 'National Income statistics enable an overall view to be taken of the whole economy and of the relative positions and inter-relations among its various parts'. Thus, the computation of national income and its analysis has been considering an important exercise on economic literature.

Answer the following Questions:-

(i). Which territory has been referred to in the first passage by the expert? 1

(ii). Differentiate between Stock and Flow? 2

(iii). The returns for the productive powers.....income. (Transfer/Factor) 1

12. Giving reasons, classify the following into intermediate goods and final goods:

(i) Ceiling fan purchased by a tailor for his shop.

(ii) Chalks, dusters, etc., purchased by a school.

(iii) Purchase of uniforms for nurses by a hospital. 6