Class XII holiday homework

Session-2025-26

Subject -accountancy

- Q1.Mohit and Rohit are partners in a firm with a capital of Rs 80,000 and Rs 40,000 respectively. The firm earned a profit of Rs 30,000 during a year calculate Mohit share of profit
- Q2. Amit Sumit and Kiara are partners sharing profit and losses in the ratio of 2:2:1 sumit is entitled to a commission of of 15% of net profit after charging such commission . the net profit before charging commission is Rs 9,20,000,Calculate the amount of commission payable to sumit.
- Q3. X,Y and Z are partners in a firm . Their capital on 1st April 2015 were Rs.30,000 20,000 and 10,000 respectively. On 1stAugust , 2015. X introduce Rs.20,000 &

Z introduce Rs.10,000 as fresh capital .On $1^{\rm st}$ Dec , $2015\,$ Y withdrew Rs. 5000 from his capital on $31^{\rm st}$ March 201 calculateintereston capital @ 10% P.A .

Q4.M, H and R are partners in a firm at the firm at the end of the year, 31st Maarch,2014,their Capital showed balance of Rs80,000 , 60,000 and 50,000 respectively. During the year firmEarned Rs.75000 as net profit. Drawing of M, H, and R Rs.10,000 , 15,000 and 5000.

Calculateintereston capital @ Rs.10% P.A on 31stMarch, 2014

Q5.Mr. Rahul is a partner in a firm. During the year he withdrew the following amounts:-

Date	Amount
1st April, 2014	1000
31stAugust, 2014	2000
1stOctober, 2014	5000
1st December ,2014	3000
31stJanuary, 2014	2000

Calculate interest on drawing @ 10% p.a. for the year ended 31st march 2015

- Q6. X, Y and Z are partners in a firm. X withdrew Rs. 5,000 at the beginning of each month, Y withdrew Rs. 6 000 at the end of each month and Z withdrew Rs. 10,000 at the middle of each month. Calculate interest on drawings @ 12% P.A.On 31st march, 2015
- Q7. Mohit Shyam and Rahul are partners in a firm sharing profits in the ratio of 3:2:1 .Rahul wants that he should share equally with Mohit and Shyam .He further wants that change in ratio should be applicable respectively for the last 3 years. Other partners have no objectionthe profits for the last three year were Rs. 20,000, 25,000, and Rs. 18000.

 Record adjustment entry.
- Q8. Vinay and vijay were partners in a firm sharing profit in the ratio of 3:2. Their fixed capital were Vinay Rs. 180000 and Vijay Rs. 120000.

The partnership deed provided the following:-

(i) Interest on capital @ 5% P.A.

- (ii) Rs.12000 P.A Salary to vinay and Salary of Rs. 400 P.M to Vijay.
- The net profit earned by the firm for the year ended 31-03-2014 was Rs. 46800. The Profits were divided equally without providing for the above . Pass adjustment entry
- Q9. P,Q and R are partners in a firm with the capital of Rs.20000 , 50,000 and 80,000. Interest On capital charged 12% P.A instead of 9 % P.A . Pass journal entry to rectify the above error.
- Q10.Preeti, Neetu and Rita were partners in a firm sharing profit in 2:3:5 ratio. Preeti was guaranteed a maximum profit of Rs. 1,00,000. Any deficiency on this account was to be borneby Rita. The profit of the firm for the year ended 31-03-206 was Rs. 4,50,000.

Prepare Profit and Loss Appropriation Account of Preeti ,Neetu and Reeta for the year ended 31-03-2006 Q11.Rajat , Vinod and Suresh are partners sharing profits in the ratio of 5:4:1 .Suresh is given a guarantee that his share of profit in any year would be Rs.6000.Deficiency if any , Would be borne by Rajat and Vinod 3:3 .The profit for the year 1998 amounted to Rs.40,000.

Pass necessary journal entries in the books of the firm.

- Q12. Amitabh and Babul are partners sharing profits in the ratio of 3:2, with capitals of Rs 50,000 and 30,000 respectively. Interest on capital is agreed @ 6% p.a. Babul is to be allowed an annual salary of Rs 2,500. During the year 2019-20, the profits prior to the calculation of interest on capital but after charging Babul's salary amounted to Rs 12,500. A provision of 5% of the profit is to be made in respect of commission to the manager. Prepare profit and loss account.
- Q13.Afirm's average profits are Rs 70,000. it includes abnormal profits of Rs 5,000 capital invested in the business is Rs 5,50,000 and the normal rate of return is 10%. Calculate goodwill at four times of average profit.
- Q14. A firm's average profits are Rs 180,000. Capital invested in the business is Rs 5, 00,000 and the normal rate of return is 20%. Calculate the goodwill of the Firm.
- (i) On the basis of capitalizations of (a) average profit (b) super profit

CLASS XII SUB: BUSINESS STUDIES HOLIDAY HOMEWORK FOR SUMMER VACATION 2025-26

MCQ BASED QUESTIONS

- Q1. Successful organisations do not achieve goals by chance but by following a deliberate process known as
 - (a) Planning
 - (b) Co-ordination
 - (c) Controlling
 - (d) Management
- Q2. Efficiency is concerned with
 - (a) Doing the right thing
 - (b) Doing things right
 - (c) Achieving end results
 - (d) None of the above
- Q3. Which of the following statements is true with reference to principles of management?
 - (a) The principles of management have evolved.
 - (b) The principles of management are yet to be evolved.
 - (c) The principles of management are in the continuous process of evolution.
 - (d) None of the above.
- Q4. The principles of management are intended to be applied to all types and sizes of organisations. This statement

reflects that the principles of management are

- (a) General guidelines
- (b) Flexible
- (c) Universally applicable
- (d) Mainly behavioural
- Q5. Rohan works as a production manager in Global Enterprises Limited. He has been given the task of getting 1000 units

of hand woven table mats manufactured at the cost of ₹150 per unit within 10 days. In order to be acknowledged as

an effective manager, he must ensure that

- (a) The cost of production does not exceed ₹150 per unit
- (b) The work is completed within 10 days even at higher cost per unit
- (c) The cost of production is less than ₹150 per unit
- (d) All of the above
- Q6. Principles of management can be modified by the manager when the situation demands. This statement implies that

the principles of management are

- (a) Rigid
- (b) Contingent
- (c) Flexible
- (d) Universally applicable
- Q7. Jay is working as a marketing manager in a company. Has been given the task of selling 100000 units of a product at

the cost of ₹100 per unit within 20 days. He is able to sell all the units within the stipulated time, but had to sell last

1000 units at 20% discount in order to complete the target. In such a situation, he will be considered to be

- (a) An efficient manager
- (b) An effective manager
- (c) Both effective and efficient manager
- (d) None of the above
- Q8. Management is equally important to run a political organisation as it is to run an economic organisation. Which

feature of management is being reflected in the given statement?

- (a) Management is goal oriented
- (b) Management is multidimensional
- (c) Management is all pervasive
- (d) Management is a group activity
- Q9. Keeping in view the changes in the consumer demands and preferences 'Tasitemaker Bakery' has reduced the sugar

and fat content in its products. This approach of business shows that management is

- (a) An intangible force
- (b) A group activity
- (c) A dynamic function
- (d) A multidimensional activity
- Q10. According to this principle of general management, "an organisation should safeguard against abuse of managerial

power, but at the same time a manager should have the necessary authority to carry out his responsibility." Name the

principle of management being described in the given statement.

- (a) Discipline
- (b) Authority and responsibility
- (c) Unity of command
- (d) Unity of direction
- Q11. Name the principle of management suggested by Henri Fayol, which advocates that, "there should be good superiors

at all levels, clear and fair agreement and judicious application of penalties."

- (a) Authority and responsibility
- (b) Esprit De Corps
- (c) Order
- (d) Discipline
- Q12. Through this principle of management, Henri Fayol guides the managers to exhibit exemplary behaviour and advises

that they should not fall into temptation of misusing their powers for personal benefit at the cost of general interest

of the organisation. Which principle of management is being described in the above statement?

- (a) Remuneration of employees
- (b) Centralisation and decentralisation
- (c) Subordination of individual interest to general interest
- (d) Equity
- Q13. Management is considered to be an art because
 - (a) The principles of management have universal validity
 - (b) The principles of management have universal application
 - (c) Different principles of management are brought into effect differently by different managers
 - (d) It is not important for the practising managers to be a member of a professional association.
- Q14. Which of the following is not a designation related to middle level management?
 - (a) Operations Head
 - (b) Sales Manager
 - (c) Chief Operating Officer
 - (d) Divisional Manager
- Q15. Which of the following is a function of top level management?
 - (a) Ensuring quality of output
 - (b) Assigning necessary duties and responsibilities to their departments
 - (c) Taking responsibility for all the activities of the business and its impact on the society
 - (d) Ensuring that the safety standards are maintained within the organisation.
- Q16. Which of the following statements is not true for lower level management?
 - (a) Analyse the business environment and its implications for the survival of the business.
 - (b) Ensure the quality of the output

- (c) They strive to reduce the wastage of resources
- (d) They ensure that the safety standards are maintained within the organisation.
- Q17. Which principle of general management advocates that, "Employee turnover should be minimised to maintain

organisational efficiency."?

- (a) Stability of personnel
- (b) Remuneration of employees
- (c) Equity
- (d) Esprit De Corps
- Q18. Principles of management emphasize on logical and rational decision making rather than on the basis of bias and

prejudice. The given statement highlights that the knowledge of principles of management leads to

- (a) Providing managers with useful insight into reality
- (b) Scientific decisions
- (c) Meeting changing environmental requirements
- (d) All of the above
- Q19. The main task of this level of management is to determine the overall organisational objectives and strategies for

their realisation.

- (a) Operational management
- (b) Middle level management
- (c) First line managers
- (d) Top level management
- Q20. Co-ordination is considered to be the essence of management because
 - (a) It is a common thread that runs through all the activities within the organisation
 - (b) It is implicit and inherent in all functions of the organisation
 - (c) It is a force that binds all the functions of management
 - (d) All of the above

Case studies based questions

Case 1

Read the following text and answer the question:

Priya, Riya and Seema are best friends They started a manufacturing unit of garments in Delhi. After a successful establishment in Delhi. They decided to open one of its branches in rural areas in Haryana with the objective of reducing the cost and offering jobs to the locals. They assessed and analyzed the type and number of employees required, keeping in mind that they have to encourage women in rural areas. They also offered employment opportunities to physically challenged people of rural areas. They satisfy the financial needs of employees. This step has raised the living standard of people living in rural areas.

- 1. "They have to encourage women in rural areas and they offered employment opportunities to physically challenged
 - people in rural areas." Which objective of management is highlighted here?
- i. Personal
- ii. Organisational
- iii. Social
- iv. Economic
- 2. "They decided to open a branch in rural areas with the objective of reducing cost and offering job to the locals. Which social objective is fulfilled by this effort?
- i. Using eco-friendly methods of production
- ii. Providing financial support to community
- iii. Contribution towards civic amenities
- iv. Generation of employment opportunities
- 3. "They satisfy the financial needs of employees by offering good salaries." This statement highlights which objective of management?
- i. Social
- ii. Economic
- iii. Personal

- iv. Organisational
- 4. "Priya decides all variety, quantity and colour of all the items or products for maximising sale in the market."

The primary function of every manager is ______.

- i. Directing
- ii. Organising
- iii. Planning
- iv. Staffing
- 5. "Allocation of resources for their purchase from different suppliers." Which function of management is highlighted here?
- i. Planning
- ii. Organising
- iii. Coordination
- iv. Contolling
- 6. "She prefers to use eco-friendly methods of production." Which objective of management is highlighted here.
- i. Economic
- ii. Social
- iii. Personal
- iv. Organisational
- 7. Which function of management ensures actual activities conform to planned activities?
- i. Planning
- ii. Coordination
- iii. Directing
- iv. Controlling

Case 2

Read the following text and answer the question:

In Shekhawat Ltd., Karanpreet working as a 'Production Manager' is a different person and has his own personalized and unique style of managing things and people. He tells his employees that we should work with team spirit, coordination and towards achieving the organisational goals. In a board meeting, it has been decided that the company will change some of its product features so as to make it more useful for the customers and to face intense competition. Karanpreet explains the decision taken in a board meeting to all the employees of the organisation.

- 1. "In Shekhawat ltd. Kranpreet working as 'Production Manager' is a different person and has his own personalized and unique style of managing things and people." Identify the nature of management highlighted in the statement.
- i. Profession
- ii. Art
- iii. Science
- iv. None of the above
 - 2. "In a board meeting, it has been decided that the company will change some of its product features so as to make it more useful for the customers and to face the intense competition." Which characteristic of management is reflected in the statement?
- i. Management is a continuous process
- ii. Management is group activity
- iii. Management is multi-dimensional
- iv. Management is a dynamic function
 - 3. At which level Karanpreet is working?
- i. Top-level
- ii. Middle-level
- iii. Lower-level
- iv. Supervisory level
 - 4. Karanpreet tells his employees that we should work with team spirit, coordination and towards achieving organisational goals. Identify the characteristic of management highlighted here.
- i. Management is a goal-oriented
- ii. Management is all-pervasive

- iii. Management is a continuous process
- iv. Management is a group activity

ASSERTION AND REASONING BASED QUESTIONS

1. Assertion (A): Management is a systematic body of knowledge.

Reason (R): Management has its own theory and principles that have developed over a period of time.

- 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.
- **2. Assertion** (**A**): Participating actively in social service projects of the Government is not a legal obligation.

Reason (**R**): It provides various tax deductions to the enterprise.

- 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. Assertion** (A): In any organisation, coordination is required so that production and sales department can work hand in hand.

Reason (R): Coordination integrates group efforts.

- 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.
- **4. Assertion (A):** Coordination begins at the planning stage and continues till controlling. **Reason (R):** Coordination is a one-time process.
- 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.
- **5.** Assertion (A): One of the main differences between efficiency and effectiveness is based on the things they emphasise upon.

Reason (R): Efficiency emphasises doing the right task whereas effectiveness emphasises doing the task

in the right way.

- 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.

- **6.** Assertion (A): Coordination integrates group efforts.
 - **Reason (R):** Coordination unifies unrelated or diverse interests into purposeful work activity.
- 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.
- **7. Assertion** (A): Scientific Principles are developed through observations and repeated experiments.

Reason (R): Management is an inexact science as there are no Laboratories available in this field.

- 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.
- **8. Assertion** (A): Coordination is an all-pervasive function.

Reason (R): Coordination ensures unity of action.

- 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.
- **9. Assertion** (A): Employees have the tendency to resist changes.

Reason (R): Management had to bring necessary changes in the organisation to survive in this

competitive world and dynamic environment.

- 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. Assertion** (**A**): In the field of Management, only theoretical knowledge is not sufficient. **Reason** (**R**): Managers have to use their personal skills and creativity to apply that knowledge under different situations.
- 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.
- **11. Assertion** (**A**): Management is a dynamic function and has to adapt itself to the changing environment.

Reason (R): The effect of management is noticeable in an organisation where targets are met according to plans.

- 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.
- **12. Assertion** (A): Staffing is finding the right people for the right job and is an important aspect of management.

Reason (R): Staffing makes sure that right people with the right qualifications are available at the right

places and times to accomplish the goals of the organisation.

- 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.
- **13. Assertion (A):** Management tries to integrate the personal objectives of the employees with the organizational objectives.

Reason (R): Workers may lose interest in work if their objectives are neglected and it will be better if

their objectives are in the same line with that of organizational objectives.

- 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.
- **14. Assertion** (**A**): Middle Management is the link between top and lower level managers. **Reason** (**R**): Middle management are subordinate to top managers and superior to the first line managers.
- 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.
- **15. Assertion** (**A**): Profession involves skillful and personal application of existing knowledge to achieve desired results.

Reason (R): Experts in their respective areas have derived certain basic principles which are applicable

to a particular form of art.

- 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.

CLASS XII MARKETING

Holiday home work

Q1. From which stage of PLC can an organisation observe an onset of decline in profits?

(b) Growth stage

(a) Introduction stage

(c) Maturity stage	(d) Decline stage
Q2.Which of the following is an ext	ternal factor that affects pricing decisions?
(a) Product differentiation	(b) Cost of production
(c) Objectives of the firms	(c) Competition
Q4 Explain the importance of produ	act
Q5. Explain the following: (a) augn product	nented product (b) customized product (c) differentiated
Q6. What are the functions of packa	aging? Explain various packaging strategies.
Q7. Explain the various stages of prand competitors	roduct life cycle on the basis of sales, cost, profits, customers
Q8. Explain speciality and unsough	t product.
Q9. Fill in the blanks	
improvements (ii) The indicates the difference of the control of the contr	to enhance the value of product /offer through voluntary ne sales and profit of the product over time es as theof marketing sure identification and all marketing activities revolve around it.
Q10. Name and explain the various firm up to a certain extent	factors affecting pricing which are within the control of a
Q11.Distinguish between generic m	narket and product market
issued By the food safety and stand Welfare whereby the products requi	s are sold are required to comply the food and safety regulations, 20 lard authority of India functioning under the ministry of health and sired more extensive descriptions of their nature and use along with sept discussed above and explain its role.

ENGLISH:

 Interview atleast 5 people in your neighbourhood on the topic" Evolving hazards due to social media in my neighbourhood". Create a presentation of the interview and draft the article on word file.

 Write an interesting short script based on any one of the themes of the three lessons you have learnt (The Last Lesson, My Mother @Sixty Six and Third Level).
 Use A4 size paper.

3. The roads are being widened, forests are being cut, buildings are being constructed, Companies are being set-up, Technology is ever-growing yet we find something is missing. Write an article on "Humanity Missing in Human World".

4. Read any book written by APJ Abdul Kalam and write a review in 200 words.
5.Write a poem on your own using some literary devices and make it as rhythmic as

possible. Write the poem with the theme Save The Green World, Save Life.

APPLIED MATHEMATICS

Grade XII

Summer Holiday's Home Work

EXERCISE-1

- 1. Find the sum of 132 and 121 mod 23.
- 2. Find 76 (mod3).
- 3. Find the value of x, given that $x \equiv 23 \pmod{7}$; if $21 \le x < 31$
- 4. Find the remainder when 226 x 369 x 122 x 461 x 1025 is divided by 8.
- 5. Evaluate (16 x 29)(mod 7)
- 6. If x (mod 9)=2, find all the possible values of x; where 0 < x < 47.
- 7. Find the positive integers less than 50 forming the equivalence class 4 for modulo 6
- 8. What time will it be after 200 hours, if the present time is 5:00 am?

EXERCISE-3

- In what ratio must rice at ₹ 69 per kg be mixed with rice ₹ 100 per kg so that the mixture be worth ₹ 80 per kg?
- [O₊ The average salary per head of the entire staff of a small factory including the supervisor and labours is ₹ 5750. The average salary per head of the supervisor is ₹ 20,000 and that of the labours is ₹ 5000. Find the number of labours in the factory if there are 4 supervisors.
- A container contains 70 / of orange squash. The squash being too concentrated 7 / of squash was taken out from this container and replaced by water. This process was repeated thrice to reduce the concentration of squash. How much quantity of orange squash is left in the container?

EXERCISE-4

- Find the speed of the boat, if a boat moves downstream at the rate of 16 km/hr and upstream at the rate of 10 km/hr.
- 13. The speed of a boat in still water is 14 km per hour. While going downstream it moves at the rate of 24 km per hour. Find the speed of the boat against the stream.
- 14. A boat goes 8 km upstream and then returns. Total time taken is 4 hours 16 minutes. If thespeed of current is 1 km/hr, find the actual speed of the boat.

EXERCISE-5

- 15, Pipe A can fill a tank in 30 hours and pipe B in 45 hours. If both the pipes are opened in an empty tank, how much time will it take to fill the tank?
- 6, A pipe can fill a cistern in 6 hours. Due to a leakage in the tank the cistern is just full in 9 hours. How much time the leakage will take to empty the tank?
- 17. A cistern can be filled by pipes A and B in 4 hours and 6 hours respectively. When full, the cistern can be emptied by pipe C in 8 hours. If all the pipes were turned on at the same time, in how much time will the cistern be filled?

EXERCISE-6

- 18. In a 1000 metres race, A defeats B by 300 metres and B defeats C by 200meters. In the same race by how many metres will A defeat C?
- (9) In a 1000 metres race, A can give a start of 100 metres to B and a start of 280 metres to C. In the same race, how much start can B give to C?
- 2. In a 500 metres race, A defeats B by 60 metres (or) 12 seconds. What is the time taken by A to complete the race?

EXERCISE-7

- A,B and C enter into a partnership. B contributes 1/3 of the capital, while A contributes as much as B and C together contribute. Find the ratio of their capitals.
- 22, Rahul got ₹ 5000 as his share out of the total profit of ₹ 9000. Ramesh had invested ₹ 3000 for 6 months, while Rahul invested for the whole year. Find the amount invested by Rahul.
- Solve: 4x 2 < 8, when $x \in Z$ Show that the numbers 16 and 4, satisfy the numerical inequality AM > GM Solve the following inequality: (i) (-2 z -6) < 10
 - (ii) 2a < a 4 ≤ 3a
- 24, Construct matrix A = $[a_{ij}]$ of order 2X3 where $a_{ij} = \frac{(i+2f)^2}{2}$
- $\partial \mathcal{G}$, Construct matrix B = $[b_{ij}]$ of order 2×2 where $b_{ij} = \frac{|i-j|}{3}$
- 26, How many distinct 2X2 matrices can be formed by using numbers 5, 7 and -1? Justify your answer,
- 27, Given $A = \begin{bmatrix} 1 & -1 & 0 \\ 2 & 3 & 4 \\ 0 & 1 & 2 \end{bmatrix}$, $B = \begin{bmatrix} 2 & 2 & -4 \\ -4 & 2 & -4 \\ 2 & -1 & 5 \end{bmatrix}$, find:
 - i. 2A 3B
 - ii. AB
 - iii. BA
 - iv. AB BA
- \mathbb{R}^2 , For A = $\begin{bmatrix} 1 & 2 & 3 \\ 3 & -2 & 1 \\ 4 & 2 & 1 \end{bmatrix}$ show that A³ 23A 40 I = O, where I is an identity matrix of order 3, and
- 29, \rightarrow Find the area of the triangle with vertices (-2,-3), (-1,-8) and (3, 2).
- 30. For what value of "k" the points (k, 7), (-4, 5) and (1, -5) are collinear.
- 31. Represent the given matrices as the sum of a symmetric and skew symmetric matrices

$$\begin{bmatrix} 3 & 1 \\ -1 & 8 \end{bmatrix}$$

$$\tilde{u}. \begin{bmatrix}
-4 & 4 & 4 \\
-7 & 1 & 3 \\
5 & -3 & -1
\end{bmatrix}$$

32, -> Prove the following using properties of determinants:

$$i. \begin{vmatrix} -a^2 & ab & ac \\ ab & -b^2 & bc \\ ac & bc & -c^2 \end{vmatrix} = 4a^2b^2c^2 \qquad ii. \begin{vmatrix} 1 & 1 & 1 \\ 1 & 1+x & 1 \\ 1 & 1 & 1+y \end{vmatrix} = xy$$

$$ii. \begin{vmatrix} 1 & 1 & 1 \\ 1 & 1+x & 1 \\ 1 & 1 & 1+y \end{vmatrix} = xy$$

iii.
$$\begin{vmatrix} 1 & a & a^2 \\ 1 & b & b^2 \\ 1 & c & c^2 \end{vmatrix} = (a-b)(b-c)(c-a)$$

$$k. \begin{vmatrix} \alpha & \beta & \gamma \\ \alpha^2 & \beta^2 & \gamma^2 \\ \beta + \gamma & \gamma + \alpha & \alpha + \beta \end{vmatrix} = (\alpha - \beta)(\beta - \gamma)(\gamma - \alpha)(\alpha + \beta + \gamma)$$

$$\begin{vmatrix} 1 & 1+p & 1+p+q \\ 2 & 3+2p & 1+3p+2q \\ 3 & 6+3p & 1+6p+3q \end{vmatrix} = 1$$

33. -> Find adjoint A if

i.
$$A = \begin{bmatrix} 2 & 1 \\ -3 & 5 \end{bmatrix}$$

ii.
$$A = \begin{bmatrix} -52 & 11 \\ 0 & 51 \end{bmatrix}$$

i. $A = \begin{bmatrix} 2 & 1 \\ -3 & 5 \end{bmatrix}$ ii. $A = \begin{bmatrix} -52 & 11 \\ 0 & 51 \end{bmatrix}$ Find the inverse of the given matrices, by using elementary transformations: $\eta \begin{bmatrix} -5 & -1 \\ 3 & 2 \end{bmatrix}$ ii) $\begin{bmatrix} -3 & -1 \\ 5 & 2 \end{bmatrix}$

i)
$$\begin{bmatrix} -3 & -1 \\ 5 & 2 \end{bmatrix}$$

(ii)
$$\begin{bmatrix} 1 & -1 & 1 \\ 2 & 1 & -3 \\ 1 & 1 & 1 \end{bmatrix}$$

iv)
$$\begin{bmatrix} 3 & 2 & 1 \\ 4 & 1 & 3 \\ 1 & 1 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 2 & -1 & 4 \\ 4 & 0 & 2 \\ 3 & -2 & 7 \end{bmatrix}$$

36. Solve the following system of equations by i) Matrix method ii) Row reduction method:
a) 2x - 3y = -4, 3x + 5y = 13

- - d) x y + 2z = 1, 2y 3z = 1, 3x 2y + 4z = 2
- e) 2x 3y + 5z = 1, 3x + 2y 4z = -5, x + y 2z = -3
- i) 2x 3y = -4, 3x + 5y = 13

DAV Public School, Jhingurdah Project, NCL

Summer Vacation Homework

Class – 12

Session -2025-26

- 1- Short Answer type questions.
 - I- "Circular flow of income principles is based on assumption ---once expenditure is another's income" Justify the given statement.
 - II- Distinguish between Stock and Flow .Give an example of each .
 - III- Differentiate between intermediate goods and final goods with suitable examples.
 - IV- Increase in national income always implies increase in domestic income elucidate.
 - V- Solve the following questions.

"Gross domestic product as an indicator of welfare loses its significance in the distribution of income turns unequal". Justify the given statement with valid reasons

66. Calculate Net Domestic Product at Market Price: Particulars A Consumption Expenditure	{CBSE, All India 2015 (III)}
Particulars (i) Private Final Consumption Expenditure	₹ in crores
anning stock	400
(ii) Opening 3000 (iii) Consumption of Fixed Capital	25
· - auto	15
M Government Final Consumption Experioriture	90
Net factor income to abroad	(-) 5
(vii) Gross Domestic Fixed Capital Formation	80
	20
(viii) Closing stock	20
(ix) Exports Net Dome	10 stic Product at Market Price = ₹550 Cro {CBSE, Foreign 2015 (I
(ix) Exports Net Dome 7. Calculate Net National Product at Market Price.	10 stic Product at Market Price = ₹ 550 Cro {CBSE, Foreign 2015 (I
(ix) Exports Net Dome 7. Calculate Net National Product at Market Price.	10 stic Product at Market Price = ₹550 Cro
(ix) Exports Net Dome 7. Calculate Net National Product at Market Price. Particulars (i) Net Factor income to abroad	10 stic Product at Market Price = ₹550 Cro {CBSE, Foreign 2015 (I
(ix) Exports Net Dome. 7. Calculate Net National Product at Market Price. Particulars	stic Product at Market Price = ₹ 550 Cro {CBSE, Foreign 2015 (I ₹ in crores (-) 10
(ix) Exports Net Dome 7. Calculate Net National Product at Market Price. Particulars (i) Net Factor income to abroad (ii) Social security contributions by employees	10 stic Product at Market Price = ₹550 Cro {CBSE, Foreign 2015 (I ₹ in crores (-) 10
Net Dome. 7. Calculate Net National Product at Market Price. Particulars (i) Net Factor income to abroad (ii) Social security contributions by employees (iii) Consumption of fixed capital	10 stic Product at Market Price = ₹550 Cro {CBSE, Foreign 2015 (I ₹ in crores (-) 10 11 4(70
(ix) Exports Net Dome 7. Calculate Net National Product at Market Price. Particulars (i) Net Factor income to abroad (ii) Social security contributions by employees (iii) Consumption of fixed capital (iv) Compensation of employees	10 stic Product at Market Price = ₹ 550 Cro {CBSE, Foreign 2015 (I ₹ in crores (-) 10 11 40 70
(ix) Exports Net Dome 7. Calculate Net National Product at Market Price. Particulars (i) Net Factor income to abroad (ii) Social security contributions by employees (iii) Consumption of fixed capital (iv) Compensation of employees (v) Corporate tax	10 stic Product at Market Price = ₹550 Cro {CBSE, Foreign 2015 (I ₹ in crores (-) 10 11 4(70

Related Aggregates	
7. Calculate Indirect Taxes from the following data:	
particulars data:	3.17
(i) NDP at FC	
(ii) Subsidies	₹ in crores
(iii) Factor income from abroad	55,915
(iv) Consumption of Fixed Capital	1,540
(v) Factor income to abroad	625
(vi) GNP at MP	1,625
	865
. Calculate Factor Income to abroad:	58,350
articulars	Indirect Taxes = ₹2,590 Cro
(i) GNP at FC	₹ in crores
ii) Subsidies	4,280
i) Factor income from abroad	80
v) Depreciation	400

9. Calculate Depreciation:

(v) Indirect Taxes

(vi) NDP at MP

Factor Income to abroad = ₹280 Crores

Choling the property of the second
₹ in crores
80,000
10,600
75,920
700
500
1,770

10. Calculate Subsidies:

Depreciation = ₹4,950 Crores

480

100 3,700

Particulars	₹ in crores
(i) GDP at FC	55,000
	4,400
(ii) Indirect Taxes	700
(iii) Net Factor Income from abroad	55,500
(iv) NNP at MP	2,500
(v) Depreciation	Subsidies = ₹2,100 Cro

11. Gross National Product at market prices of an economy is ₹65,000 crores. The capital stock of the economy is valued at ₹ 1,20,000 crores, which depreciates at the rate of 10% per annum. Indirect taxes amount to ₹ 6,000 crores and subsidies amount to ₹ 1,000 crores. Estimate National Income of the economy. National Income = ₹48,000 Crore

12. Suppose, in an imaginary economy, Gross Domestic Product (GDP) at market price in 2019-20 was ₹ 5,000 crore, National Income was ₹ 3,500 crore, Net Factor Income paid by the economy to rest of the world wa ₹ 450 crore and the Net Indirect Taxes was ₹ 400 crore. Estimate the value of consumption of fixed capita Consumption of Fixed Capital = ₹650 cror for the economy from the information given above.

(ii) All of them together. (i) Value added: Firm A = ₹500; Firm B = ₹500; Firm C = ₹800; Firm D = ₹800. (ii) ₹2,600

14. Suppose firm A sold raw material to firm B for ₹ 1,000 and to firm C for ₹ 600. Firm B sold its product partly suppose in the suppo to the government for ₹ 500 for public consumption and the remaining product worth ₹ 500 was unsold stock left with it. (Assume that firm A buys no raw material). (i) Find the value added by firm A, firm B and firm C. (ii) Total Consumption Expenditure.

(i) Value added: Firm A = ₹1,600; Firm B = ₹400; Firm C = ₹400. (ii) Total Consumption Expenditure = ₹1,300

15. In an economy, the following transactions take place and the final sale is for private consumption. A, B, C and D are four industries. A sells to B for ₹ 20,000. B whose value added is ₹ 40,000, sells half of its output to C and another half to D. C sells all its output to D. D's whose value added is ₹ 30,000, sells all its output to final product for ₹ 1,30,000. What is value added by C?

Value Added by C = ₹40,000

Practicals on Income Method

16. Calculate National Income.

lars	₹ in crores
	200
	20
ividends	100
	900
/ages and salaries	500
rofits	400
mployers' contribution to social security schemes	50
et factor income from abroad	-10
onsumption of fixed capital	50
et indirect taxes	50
	dixed income of self employed ald age pension ividends perating surplus ages and salaries rofits mployers' contribution to social security schemes et factor income from abroad onsumption of fixed capital

17. Calculate NNP at FC.

National Income = ₹1,640 crores

Particulars	₹ in crores
(i) Net current transfers from rest of the world	80
(ii) Wages and Salaries	600
(iii) Net indirect taxes	75
(iv) Net Factor income from abroad	-20
(v) Rent and interest	160
(vi) Corporation tax	40
(vii) Mixed Income of the self-employed	280
viii) Undistributed profit	ATTENDED TO THE PARTY OF THE PA
(ix) Dividend	60
(x) Consumption of fixed capital	20
pation of fixed capital	120

NNP_{FC} = ₹1,140 crores

- VII- Distinguish between real and nominal gross domestic product.
- VIII- How can externalities be a limitation of using gross domestic product as an index of welfare.
- IX- Explain any 2 precautions that should be taken into account while estimating national income by expenditure methods.

Long Answer type questions

- 1- How will you treat the following while estimating the domestic product of a country ?Give reasons for your answer.1-Profit earned by branches of country's bank in other countries.2-
 - Gifts given by an employer to his employees on Independence Day
 - . 3-Purchase of goods by foreign tourists
 - 2-Explain any 4 limitations of using GDP as a measure of welfare of a country.
- 2- Explain the problem of double counting in estimating national income with the help of an example also explained the two alternative ways of avoiding the problem.
- 3- "National income is always greater than domestic income" Do you agree with the given statement support your answer with the valid reason.
- 4- Discuss briefly any two salient features of India's pre-independence occupational structure.
- 5- State the two fold motive for the systematic destabilisation of indigenous Indian industries in the British era.