Mock Test Paper - Series I: March 2026

Date of Paper: 23rd March 2026

Time of Paper: 10 AM – 1 PM

INTERMEDIATE: GROUP – II

PAPER – 4: COST AND MANAGEMENT ACCOUNTING

Answers are to be given only in English except in the case of the candidates who have opted for Hindi medium. If a candidate has not opted for Hindi medium his/ her answer in Hindi will not be valued.

Working notes should form part of the answer.

Time Allowed – 3 Hours **Maximum Marks – 100**

1. *The question paper comprises two parts, Part I and Part II.*
2. *Part I comprises Case Scenario based Multiple Choice Questions (MCQs) for 30 marks*
3. *Part II comprises questions which require descriptive type answers for 70 marks.*

PART I – Case Scenario based MCQs

Part I is compulsory.

Write the most appropriate answer to each of the following multiple-choice questions by choosing one of the four options given. All questions are compulsory.

Case Scenario 1

Mr. Sagar, the CFO of Super high Ltd. was shocked to see the plummeting margins in the second quarterly results of the company as presented in the committee meeting. He wondered how can things go so wrong all of a sudden, while he had been awarded for exemplary performance just three months back.

In order to set things right and ensure a positive turnaround, he appointed you to analyze and present a report giving narrative for the downfall.

You begin with seeking information which is presented as under:

There was no change in the selling price of the product from last quarter.

There was no opening or closing stocks of raw material or finished units in the beginning or end of the quarter. However, there were stocks of WIP (work in progress) units.

Opening WIP was 1,000 units which was 60% complete in respect of labour and overheads. Super high Ltd. was engaged in a process where material was fed immediately in the pipe line. The opening WIP was valued at standard cost which turns out to be ₹ 1,04,000 as shown later.

Cost of Material used: ₹ 3,00,000 (6000 units @ 50 ₹ per Kg)

The Cost of Labour and overheads incurred during the quarter was ₹ 3,15,900 and ₹ 1,74,960 respectively.

4,500 completed units were produced and 1,600 units were closing WIP which was 60% complete in respect of labour and overheads. The normal loss in process was 900 units which was 15% of the current input. It was sold as scrap for ₹ 4,200.

The standard cost card showed that 1 unit of finished product would cost ₹ 50 after considering the normal standard loss which is 15% and the labour hours should be 3 hrs. @ ₹ 20 per hour, the cost of overheads per unit should be ₹ 30 per unit.

Opening WIP value:

- Material: 50 × 1,000 = ₹ 50,000
- Labour: 60% × (3 hrs × ₹ 20 × 1,000) = ₹ 36,000
- OH: 60% × ₹ 30 × 1,000 = ₹ 18,000
- Total Opening WIP = ₹ 1,04,000

1. Equivalent units for material (FIFO) are:
   (A) 5,100
   (B) 6,000
   (C) 6,100
   (D) 4,500
2. Cost per equivalent unit of labour:
   (A) ₹ 65
   (B) ₹ 61.94
   (C) ₹ 70.20
   (D) ₹ 90.26
3. Material Cost Variance and Labour Cost Variance for equivalent units is:
   (A) ₹ 40,800 F and ₹ 40,800 A respectively
   (B) ₹ 28,000 A and ₹ 40,800 F respectively

(C) ₹ 40,800 A and ₹ 24,300 A respectively

(D) ₹ 28,000 F and ₹ 25,000 F respectively

4. Standard cost of 4,500 units:

(A) ₹ 7,00,900

(B) ₹ 7,90,860

(C) ₹ 5,15,600

(D) ₹ 6,30,000

5. Actual cost of 4,500 units:

(A) ₹ 5,86,500

(B) ₹ 7,15,500

(C) ₹ 7,00,900

(D) ₹ 6,30,000 **(5 x 2 = 10 Marks)**

Case Scenario 2

A manufacturing company is in the process of preparing its cost sheet for the financial year. The management wants to analyze the efficiency of production operations and requires detailed computation of key cost components such as material consumed, prime cost, cost of production, etc.

During the year, the company incurred various expenditures related to raw materials, labour, factory operations, and administrative activities. It also maintained records of inventory levels and work-in-process to ensure accurate cost determination.

The following information has been gathered from the company's records:

		Amount (₹)
(i)	Repair & maintenance paid for plant & machinery	9,80,500
(ii)	Insurance premium paid for inventories	26,000
(iii)	Insurance premium paid for plant & machinery	96,000
(iv)	Raw materials purchased	64,00,000
(v)	Opening stock of raw materials	2,88,000
(vi)	Closing stock of raw materials	4,46,000
(vii)	Wages paid	23,20,000
(viii)	Value of opening Work-in-process	4,06,000

(ix)	Value of closing Work-in-process	6,02,100
(x)	Quality control cost for the products in manufacturing process	86,000
(xi)	Research & development cost for improvement in production process	92,600
(xii)	Administrative cost for:	
	- Factory & production	9,00,000
	- Others	11,60,000
(xiii)	Amount realised by selling scrap generated during the manufacturing process	9,200
(xiv)	Packing cost necessary to preserve the goods for further processing	10,200
(xv)	Salary paid to Director (Technical)	8,90,000
(xvi)	Television programme sponsorship cost	5,00,000

As a production manager you are required to answer the following questions (MCQs 6 to 10):

6. What is the material consumed by the company?

   (A) ₹ 60,42,000

   (B) ₹ 62,42,000

   (C) ₹ 64,00,000

   (D) ₹ 59,88,000

7. What is the prime cost of the company?

   (A) ₹ 82,62,000

   (B) ₹ 85,62,000

   (C) ₹ 88,82,000

   (D) ₹ 90,00,000

8. Calculate the work cost after adjusting Work-in-Progress.

   (A) ₹ 96,64,500

   (B) ₹ 98,70,500

   (C) ₹ 92,58,400

   (D) ₹ 94,68,400

9. What is the cost of production?

(A) ₹ 1,02,48,000

(B) ₹ 1,03,86,000

(C) ₹ 1,05,48,000

(D) ₹ 1,07,20,000

10. What is the cost of sales?

(A) ₹ 1,30,98,000

(B) ₹ 1,25,98,000

(C) ₹ 1,20,48,000

(D) ₹ 1,28,90,000 **(5 x 2 = 10 Marks)**

11. The following expenditures were incurred in P.L. Ltd. for the month of March, 2025:

	Particulars	Amount (₹)
(i)	Product blueprint cost	1,90,000
(ii)	Paid for power & fuel	3,00,000
(iii)	Wages paid to factory workers	80,000
(iv)	Hire charges paid for machinery used	50,000
(v)	Commission paid to marketing manager	35,000
(vi)	Salary to office attendants	45,000
(vii)	Fee paid to technician hired in factory	96,000
(viii)	Administrative overheads	89,000

Calculate the direct expenses for the month.

(A) ₹ 7,16,000

(B) ₹ 6,36,000

(C) ₹ 7,40,000

(D) ₹ 6,71,000 **(2 Marks)**

12. Standard hours required for doing a work is 100 hours and budgeted hours is 120 hrs. while the same work is actually completed by workers in 110 hrs. You are required to calculate the activity ratio:

(A) 109.09%

(B) 83.33%

(C) 90.90%

(D) 110% **(2 Marks)**

13. BCIC Ltd. is a insurance company. It launched a new term insurance policy Names as Protection Plus. The total cost for the policy during the year is ₹ 1,60,00,000. Total number of policies sold is 410 and total insured value of policies is ₹ 920 crore.

What is the cost per rupee of insured value?

(A) ₹ 0.0017

(B) ₹ 0.18

(C) ₹ 575

(D) ₹ 2.24 **(2 Marks)**

14. ICT Ltd. belongs to pharmaceutical industries. The chemical process that ICT Ltd. operates convert one compound into three category of medicines viz. BetaTab, Folick and TegriCap. Though BetaTab and Folick are already converted to final product at split-off point, Tegricap needs further processing along with addition of new compound with it.

The market for BetaTab and Folick is highly active, thus the production is sold at split-off point, however, Tegricap can be sold only after further processing.

Following information is provided for the current year:

Products	Quantity sold (tons)	Selling price per ton (₹)
BetaTab	372	7,500
Folick	1,054	5,625
TegriCap	1,472	3,750

The selling price is expected to remain the same for coming years.

The total joint manufacturing costs till split-off point is ₹ 62,50,000 and the amount spent for further processing w.r.t. Tegricap is ₹ 31,00,000

The details regarding closing inventories are as follows:

Products	Completed units (tons)
BetaTab	360
Folick	120
TegriCap	50

You are required to COMPUTE the joint cost allocated to BetaTab, Folick and TegriCap using Net realizable value (NRV) method.

(A) BetaTab- ₹ 15,65,481, Folick - ₹ 33,26,647 and TegriCap - ₹ 13,57,872

(B) BetaTab - ₹ 23,33,985, Folick - ₹ 28,07,478 and TegriCap - ₹ 11,08,537

(C) BetaTab - ₹ 19,27,533, Folick - ₹ 23,18,570 and TegriCap - ₹ 20,03,897

(D) BetaTab - ₹ 11,08,537, Folick - ₹ 28,07,478 and TegriCap - ₹ 23,33,985

(2 Marks)

15. A company manufactures eye-glass frames at the rate of 1,200 frames per month. The company wants to determine the most economical production batch size to minimize total setup and holding costs.

The following information is available:

- Setup cost per batch = ₹ 7,200
- Cost per unit = ₹ 3,240
- Carrying cost = 10% per annum (including storage, cost of capital, and obsolescence)

What is the Economic Batch Quantity (EBQ)?

(A) 230 frames

(B) 566 frames

(C) 800 frames

(D) 1,200 frames **(2 Marks)**

PART-II – Descriptive Questions (70 Marks)

*Question No. **1** is compulsory.*

*Attempt any **four** questions out of the remaining **five** questions.*

1. (a) A factory operates 8 hours per day with 6 working days in a week. The worker is paid @ ₹ 500 per day as basic plus 40% dearness allowance. Overtime rate is payable at double the normal hourly rate. The worker is allowed half an hour break for lunch and two tea breaks of 15 minutes each per day. During last week, worker X was present for 5 days. To meet out demand, X has done overtime for 4 hours. X has spent 60% time on Job A and 40% time on Job B. The overtime worked was for Job A only.

Direct material cost incurred are :

Job A : ₹ 5,000

Job B : ₹ 7,500

Overheads are applied @ ₹ 15 per labour hour.

You are required to CALCULATE the total cost of Job A and Job B. **(5 Marks)**

(b) A manufacturing company disclosed a net loss of ₹ 6,40,000 as per their cost accounts for the year ended 31st March, 2025. However, the financial accounts showed a net profit of ₹ 45,000 for the same period.

Upon scrutiny of both sets of accounts, the following differences were identified:

Particulars		Amount (in ₹)
(i)	Transfer fee received	23,000
(ii)	Interest on investment received	3,00,000
(iii)	Goodwill written-off	38,000
(iv)	Depreciation	
	– Charged in Financial books	5,00,000
	– Recovered in Cost books	6,00,000
(v)	Opening stock of raw material	
	– Cost books	4,50,000
	– Financial books	4,82,000
(vi)	Closing stock of finished goods	
	– Cost books	12,80,000

– Financial books	13,56,000
(vii) Notional rent of own premises recorded in Cost accounts	3,20,000
(viii) Factory overheads	
– Cost books	2,50,000
– Financial books	1,94,000
(ix) Income-tax provided	1,20,000

You are required to PREPARE Memorandum Reconciliation Account. **(5 Marks)**

(c) A transport truck starts with a load of 30 MT of goods from Delhi. It unloads 12 MT at Agra and the remaining goods at Jaipur.

On its return journey, the truck carries 20 MT of goods from Jaipur back to Delhi.

The distances between Delhi to Agra, Agra to Jaipur, and Jaipur to Delhi are 230 kms, 240 kms, and 280 kms respectively.

COMPUTE "Absolute MT-Kilometer" and "Commercial MT – Kilometer".

(MT = Metric Ton or Ton). **(4 Marks)**

2. (a) COMPUTE the missing data indicated by the question marks from the following:

Particulars	A	B
Standard Price/ unit	₹ 12	₹ 15
Actual Price/ unit	₹ 15	₹ 20
Standard Input (kgs.)	50	?
Actual Input (kgs.)	?	70
Material Price Variance	?	?
Material Usage Variance	?	₹ 300 Adverse
Material Cost Variance	?	?

Material mix variance for both products together was ₹ 45 Adverse. **(8 Marks)**

(b) Pentax Limited has prepared its expense budget for 20,000 units in its factory for the year 2026 as detailed below:

	(₹ per unit)
Direct Materials	50
Direct Labour	20
Variable Overhead	15
Direct Expenses	6
Selling Expenses (20% fixed)	15

Factory Expenses (100% fixed)	7
Administration expenses (100% fixed)	4
Distribution expenses (85% variable)	12
Total	129

PREPARE an expense budget for the production of 15,000 units and 18,000 units.

(6 Marks)

3. (a) The following information has been extracted from the books of AB Ltd. for the year ended 31st March, 2025:

Particulars	Material X	Material Y
Average stock (kg.)	59,400 kgs	1,00,800 kgs
Position of stock	Closing stock is more than opening stock by 10,800 kg.	Opening stock is less than closing stock by 28,800 kg.
Inventory turnover ratio	6 times	8 times

You are required to :

(i) CALCULATE the quantity of each material purchased during the year and value of opening and closing stock.

(ii) CALCULATE the number of days for which the average inventory is held in respect of each material (Assume 360 days in a year).

(iii) COMMENT on the movement of inventory of each material. **(5 Marks)**

(b) The Union Ltd. has the following account balances and distribution of direct charges on 31st March, 2025.

	Total	Production Depts.		Service Depts.	
		Machine Shop	Packing	General Plant	Stores
Allocated Overheads:	(₹)	(₹)	(₹)	(₹)	(₹)
Indirect labour	29,000	8,000	6,000	4,000	11,000
Maintenance Material	9,900	3,400	1,600	2,100	2,800
Misc. supplies	5,900	1,500	2,900	900	600
Supervisor's salary	16,000	--	--	16,000	--
Cost & payroll salary	80,000	--	--	80,000	--

Overheads to be apportioned:	
Power	78,000
Rent	72,000
Fuel and Heat	60,000
Insurance	12,000
Taxes	8,400
Depreciation	1,20,000

The following data were compiled by means of the factory survey made in the previous year:

	Floor Space	Radiator Section	No. of employees	Investment	H.P. hours
Machine Shop	2,000 Sq. ft.	45	20	8,00,000	3,500
Packing	800 Sq. ft.	90	12	2,40,000	500
General Plant	400 Sq. ft.	30	4	80,000	-
Stores & maintenance	1,600 Sq. ft.	60	8	1,60,000	1,000

Expenses charged to the stores departments are to be distributed to the other departments by the following percentages:

Machine shop 50%; Packing 20%; General Plant 30%;

General Plant overheads is distributed on the basis of number of employees.

(a) PREPARE an overhead distribution statement with supporting schedules to show computations and basis of distribution.

(b) DETERMINE the service department distribution by simultaneous equation method. **(9 Marks)**

4. (a) MintCraft Pvt. Ltd. specializes in producing custom-designed award medallions and corporate commemorative coins. The company operates at a monthly production capacity of 12,000 medallions, currently producing and selling 9,000 medallions per month in the domestic market at a price of ₹180 per unit.

The cost data for the month of March, 2025 is as under:

Cost Elements	Amount (₹)
Variable Costs (dependent on units produced)	
Direct Materials (for 9,000 units)	3,42,000

Direct Labour	3,96,000
Variable Batch Costs (180 batches x ₹ 550 per batch)	99,000
Fixed Costs	
Fixed Manufacturing Overhead	3,20,000
Fixed Marketing and Admin	2,10,000

The batch size for MintCraft Pvt. Ltd.'s regular production is 50 medallions per batch. However, the special order received from an international client involves the production of 3,000 medallions, which differs in batch configuration. For this special order, the company is required to manufacture the medallions in 30 batches, with each batch consisting of 100 medallions. The client has offered a price of ₹125 per medallion for this one-time order.

Required:

(i) SHOULD MintCraft Pvt. Ltd. accept the special order? Support your recommendation with relevant calculations and brief justification.

(ii) Assume the plant capacity is reduced to 10,000 units due to scheduled maintenance. The special order must be accepted in full or not at all. SHOULD MintCraft accept the special order under these new conditions? PROVIDE brief reasoning supported by contribution margin analysis.

(7 Marks)

(b) AquaPaints Ltd. is engaged in the manufacturing of water-based paints for the construction industry. The production is carried out in a continuous process, and the company uses the FIFO method to value work-in-process and finished goods. Due to a system failure during the previous month, part of the production data was lost. However, some key information was recovered, and the management has approached you to help prepare the process account for the affected month.

The following details were retrieved:

- Opening work-in-process: 1,200 litres, 50% complete for mixing labour, and 40% complete for utilities overheads. This WIP was valued at ₹ 36,000.
- Closing work-in-process: 250 litres, 30% complete for mixing labour, and 20% complete for utilities overheads.
- Normal process loss: 6% of total input. Actual loss during the month was 1,500 litres, partly due to equipment malfunction.
- Finished output transferred: 5,000 litres.

- Scrap value of normal loss: ₹ 12 per litre.
- All color pigments and base chemicals are added at the start of the process.
- The cost per equivalent litre for the month was:

Cost Element	Rate (₹)
Base Chemicals	21.00
Mixing Labour	6.00
Utilities Overheads	8.00
Total	35.00

(a) DETERMINE the quantity (in litres) of base chemicals input during the month.

(b) CALCULATE the normal loss and abnormal loss or gain for the period.

(c) COMPUTE the total cost of base chemicals, mixing labour, and utilities overheads added during the month.

(d) PREPARE the Process Account for the month. **(7 Marks)**

5. (a) Jyoti Mfg. Co. has decided to increase the size of the store. It wants the information about the probability of the individual product lines : Lemon, Grapes and Papaya. It provides the following data for the 2025 for each product line:

Particulars	Lemon	Grapes	Papaya
Revenues (₹)	79,350	2,10,060	1,20,990
Cost of goods sold (₹)	60,000	1,50,000	90,000
Cost of bottles returned (₹)	1,200	0	0
Number of purchase orders placed	36	84	36
Number of deliveries received	30	219	66
Hours of shelf stocking time	54	540	270
Items sold	12,600	1,10,400	30,600

Jyoti Mfg. Co. also provides the following information for the year 2025:

Activity	Description of Activity	Total Costs (₹)	Cost Allocation Basis
Bottle returns	Returning of empty bottles to the store	1,200	Direct tracing to product line

Ordering	Placing of orders of purchases	15,600	156 purchase orders
Delivery	Physical delivery and the receipts of merchandise	25,200	315 deliveries
Self-stocking	Stocking of merchandise on store shelves and ongoing restocking	17,280	864 hours of time
Customer support	Assistance provided to customers including bagging and checkout	30,720	1,53,600 items sold

Required

(i) Jyoti Mfg. Co. currently allocates store support costs (all costs other than the cost of goods sold) to the product line on the basis of the cost of goods sold of each product line. CALCULATE the operating income and operating income as the percentage of revenue of each product line.

(ii) If Jyoti Mfg. Co. allocates store support costs (all costs other than the cost of goods sold) to the product lines on the basis of ABC system, CALCULATE the operating income and operating income as the percentage of revenue of each product line. **(9 Marks)**

(b) Briefly EXPLAIN Zero-based Budgeting (ZBB) along with its steps **(5 Marks)**

6. (a) SPECIFY the responsibility centre type for each of the following scenarios:

Sr. No.	Particulars	Type of Responsibility Centre
(i)	Decentralised branches of an organisation	
(ii)	Public sector undertaking of Central Government	
(iii)	Customer support department of an e-commerce company	
(iv)	Restaurant unit in a hotel	
(v)	Reservation department of airlines	

(5 Marks)

(b) XYZ Manufacturing Ltd. is facing high employee turnover and a rise in idle time in its Assembly Department. On investigation, it was found that employees often left due to dissatisfaction with working conditions and lack of incentives. The

Management decided to revise the wage payment system and introduced regular training sessions to enhance skills and morale.

As the Cost Accountant, answer the following:

(i) IDENTIFY and EXPLAIN two types of employee cost that occur due to employee turnover

(ii) SUGGEST any two factors that can be taken by the company to improve employee productivity apart from training and wage payment revision.

(5 Marks)

(c) ABC Manufacturing produces a specialized fastener in batches to meet an annual demand of 24,000 units. The accountant is considering whether to increase the batch size. Currently, the setup cost per batch is significant, but the warehouse manager is concerned about rising inventory holding costs if larger batches are produced. After a meeting, the management asks the Cost Accountant to advise on the best approach.

(a) EXPLAIN, with reasons, how batch size affects both setup costs and inventory holding costs.

(b) Briefly DESCRIBE how the company can determine the Economic Batch Quantity (EBQ) and its importance in cost control. **(4 Marks)**

OR

(c) "Cost-Volume-Profit (CVP) analysis is a vital tool for profit planning and decision-making."

DISCUSS this statement and EXPLAIN the impact of various changes in cost and volume on profit. **(4 Marks)**