CMA Question paper Sept 2024 - Descriptive

Q1(a): Language Achievers, a renowned institute specializing in TOEFL preparation, has secured a spacious hall for '20,000 on weekly basis with a seating capacity of 250 students. The instructor, highly qualified and experienced, is compensated generously with an honorarium of '1,500 per lecture. Additionally, he receives reimbursement for travel expenses of '200 per day along with refreshments costing '1,500 per week to ensure his comfort and focus during teaching sessions. Administrative and miscellaneous expenses, covering essential utilities and materials are '500 per week. Language Achievers has meticulously planned its curriculum, scheduling batches of 2 lectures per day, 5 days a week for 30 weeks, ensuring comprehensive coverage of the TOEFL syllabus.

Required:

- (i) Calculate the total cost per batch.
- (ii) Determine the minimum fee per student in a batch to cover costs, if the batch is fully occupied.
- (iii) Calculate the fee to be charged from each student if batch is 80% filled and institute aims to achieve a profit margin of 25% on the fee.

(CA Inter Sept 2024) (5 marks)

Q1(b): XYZ Ltd. declared a net profit of `2,25,000 based on their financial accounts for the year ending 31st March, 2024. The profit disclosed in cost books are not matched with financial accounts. The following information were revealed during the scrutiny of the figures of both the sets of books:

	Particulars	Amount ()
(1)	Preliminary expenses written off in financial accounts	35,000
(2)	Factory Overheads Over charged in cost accounts	20,000
(3)	Expenses on issue of shares in financial accounts	30,000
(4)	Undervaluation of closing stock in cost accounts	65,000
(5)	Interest on Bank Deposits in financial accounts	60,000
(6)	Under recovery of administration overheads in cost accounts	25,000
(7)	Notional Rent of own premises charged in cost accounts	30,000
(8)	Under recovery of selling overheads in cost accounts	35,000
(9)	Bad debts recovered in financial accounts	50,000

Required: Prepare Reconciliation Statement to arrive at net profit/loss as per Cost Accounts.

(CA Inter Sept 2024) (5 marks)

Q1(c): JC Ltd. has a production capacity of 80,000 units per year. Presently a company produces 60,000 units. Its cost structure is as under:

Material Cost : `6 per unit
Labour Cost : `4 per unit
Variable overheads : `2 per unit

Total fixed cost `3,00,000 per annum. Present selling price `20 per unit. In the month of January, 2024 company received an offer from a Japanese client to supply 20,000 units at a price of `14 per unit with the additional shipping cost of `8,000.

Required:

- (i) On the basis of changes in the profit, advice to the company, whether the offer should be accepted or not?
- (ii) Will your advice be different, if the customer is local one?
- (iii) If Japanese client offer for supply of 30,000 units to a price of `14 (part supply of order not accepted) and shipping cost treated as variable cost, analyze the impact on the profit of JC Ltd., if order accepted.

(CA Inter Sept 2024) (4 marks)

Q2(a): MNP Limited have the capacity to produce 84,000 units of a product every month. Its prime cost per unit at various levels of production is as follows:

Level	Prime Cost per unit (`)
10%	50
20%	48
30%	46
40%	44
50%	42

60%	40
70%	38
80%	36
90%	34
100%	32

Its prime cost consists of raw material consumed, direct wages and direct expenses in the ratio of 3:2:1. In the month of January 2024, the company worked at 40% capacity and raw material purchased amounting to 8,40,000.

In the month of February 2024, the company worked at 100% capacity and raw material purchased for `16,46,400.

It is the policy of the company to maintain opening stock of raw material equal to 1/3 of closing stock of raw material. Factory overheads are recovered at 60% of direct wages cost. Fixed administration expenses (as part of production cost) and fixed selling and distribution expenses are `2,01,600 and & `1,68,000 per month respectively. During the month of January 2024 company sold 33,600 units @ `68.8 per unit. The variable distribution cost amounts to `1.5 per unit sold.

The management of the company chalks out a plan for the month of February 2024 to sell its whole output @ `61 per unit by incurring following further expenditure:

- (i) Company sponsors a television programme on every Sunday at a cost of `26,250 per week. There are 4 Sundays in February 2024.
- (ii) Hi-tea programme every month for its potential customers at a cost of 1,05,000.
- (iii) Special gift item costing `105 on sale of a dozen units.
- (iv) Lucky draws scheme is introduced every month by giving the first prize of `1,00,000; second prize of `80,000; third prize of `40,000 and four consolation prizes of `8,000 each.

Note: (In the month of February 2024, there is a significant saving in material cost per unit due to entry of new suppliers in the market and saving in per unit cost of Direct wages and Direct expenses due to introduction of new policy by the management.)

Prepare a cost sheet for the month of January 2024 and February 2024 showing prime cost (with different elements of prime cost), factory cost, cost of production, total cost and profit earned.

(CA Inter Sept 2024) (6 marks)

Q2(b): In a factory there are 50 workers, working 8 hours per day including 30 minutes for lunch break, worked for 160 days during a period of six months ended on 31st December, 2023. During this period total employee's cost was recorded `3,90,000. The management of the factory decided the overtime premium rates for the month of January 2024 as under:

Sundays and holidays : 180% of basic wages rate
Before and after normal working hours : 160% of basic wages rate

During the last six months (ended on 31% December, 2023), the following hours were worked:

Normal time	56,250
Sundays and holidays	750
Before and after normal working hours	3,000
Total hours	60,000

During the month of-January 2024, the factory worked on a job BX in the following manner.

Normal working (men hours)	2,400
Overtime on Sundays and holidays (men hours)	200
Overtime before and after normal working (men hours)	
Total hours	

You are required to calculate the labour cost chargeable to job BX and overheads in each of the following situations:

- (i) Where overtime is worked regularly in whole year as a policy on account of shortage of workers.
- (ii) Where overtime is worked irregularly to meet the requirement of production.
- (iii) Where overtime is worked at the request of the customer to complete the job in time.
- (iv) Where overtime is worked on account of flood in the area.

(CA Inter Sept 2024) (6 marks)

Q3(a): GST Limited is a multi-product company. The production and cost details of its two products P and Q are given as follows:

Particulars	Product		
	Р	Q	

Quantity produced (No.)	9,000	7,200
Direct material cost (%)	72,000	50,000
Direct labour hours	800	600
Purchase requisition (No.)	180	144
Production runs (No.)	144	108
Quality inspections (No.)	27	18

Direct wages rate is `14.50 per hour. Presently the company uses a single overhead recovery rate based on direct labour hours. Overhead incurred by the company during the year 2023-24 are as follows:

Technical staff salary	`45,000
Machine operation expenses	`1,62,000
Machine maintenance expenses	`27,000
Wages and salary of stores staff	`36,000

During this period direct labour hours worked 72,000.

Now the Company wants to adopt Activity Based Costing. For this purpose, following activities are identified:

- Quality control
- Setup of machine for production runs
- Store receiving

It is also decided that salary of technical staff should be distributed among machine maintenance, setup and quality control in the ratio of 1:2:2. Machine maintenance expenses and machine operation expenses should be distributed in the ratio of 2:3 in between stores and production setup activities.

During this period cost drivers for these activities are identified as under:

Requisition raised : 5,760
Production setup : 7,200
No. of quality test : 720

You are required to compute: (i) The cost of products P and Q based on traditional absorption costing system.

(ii) The cost of products P and Q based on ABC Costing system.

(CA Inter Sept 2024) (8 marks)

Q3(b): Savi Limited is currently working at 80% of its capacity level and furnished the following information for current period:

Production/Sales	96,000 units
Direct Variable Cost	`20 per unit
Factory Overheads	`8,40,000
Administrative Overheads (Fixed)	`20,60,000
Sales Commission	2% of Sales Value
Transportation Expenses	`4,000 per truck
(Loading Capacity 4,000 units)	•

The selling price of the product is `120 per unit and Factory Overheads are 80% variable in nature.

The management of Savi Limited has come to know that there will be high fluctuations in the demand of the product in upcoming year and it would not be an easy task to predict the demand. Selling price per unit will not be affected by demand fluctuations.

Savi Limited has decided to prepare a flexible budget for the product at 60%, 80% and 100% capacity level.

You are required to prepare the Flexible Budget showing total cost of the product at each level.

(CA Inter Sept 2024) (6 marks)

Q4(a): BG company produces a standard product and sold in a packet of 10 kg. The standard cost card per pack is as follows:

Direct Material:

A - 4 kg @ `50 per kg B - 8 kg @ `40 per kg

Direct Labour:

6 hours @ `20 per hour

The company manufactured and sold 1,600 packets during the month. Actual data for material and labour recorded as under.

Direct Material:

A - 7,000 kg @ `40 B - 12,500 kg @ `45

Labour hours paid for two different categories of workers:

5% of the time paid was lost due to an abnormal reason.

Calculate the following variances indicating their nature (Favourable or Adverse):

(i) Material cost variances
(ii) Material price variances
(iii) Material usage variances
(iv) Material mix variances
(v) Material yield variances
(vi) Labour cost variance s
(vii) Labour efficiency variances

(ix) Labour Idle time variances

(CA Inter Sept 2024) (9 marks)

Q4(b): Explain Build-Operate-Transfer (BOT) approach and classify the following expenses in Capital Cost or Operating and Maintenance Cost for Toll Roads:

(i) Land acquisition (ii) Interest expenses incurred for servicing term loans

(iii) Material and Labour (iv) Toll Collection Expenses

(v) Contingency Allowance (vi) Periodic painting cost of railings etc.

(CA Inter Sept 2024) (5 marks)

Q5(a): This data pertains to the three machines operating in the manufacturing division of PQR Corp for the financial year 2023-2024:

	Estimated Expenses			
Particulars	Total (')	Machines		
		X ()	A (.)	Z ()
Direct Labour Expenses (per quarter)	2,50,000			
Oil Expenses (per quarter)	1,03,125	37,500	37,500	28,125
Machine Insurance Expenses (per quarter)	60,000			
Depreciation (per annum)	6,00,000	1,00,000	2,00,000	3,00,000
Building Maintenance Expenses (per quarter)	1,00,000			
Wages of Operator (per quarter)	2,25,000			
Electricity Expenses (per quarter)	3,00,000			
Rent and Rates (per month)	80,000			
Salary of Technician (per month)	62,500			

(The Technician works only on machines X and Y and the Operator controls all three machines and both spend equal time on each of the machines worked upon by them.)

There are 14 holidays besides Sundays in the year, of which six are on Saturdays. There was a Strike of workers for 5 working days (including one Saturday). The manufacturing department operates for 8 hours per day on regular week days, while on Saturdays, the operating hours are reduced by 2 hours per day. All machines operate at 80% capacity throughout the year. Assume 366 days in a year.

The following additional information is also available:

- (i) A 20% hike in the price of oil.
- (ii) A 10% rise in Oil consumption for machines 'X' and 'Y' only.

(iii)

Ponticulous		Machines		
Particulars	X	У	Z	
No. of Workers	5	3	2	
Ratio of K. W. Rating	3	3	4	
Ratio of Floor space utilised	1	2	1	

Required: Prepare a Statement detailing the allocation of expenses to each machine on an annual basis and thereafter, compute the comprehensive machine hour rate for each of the specified machine.

(CA Inter Sept 2024) (7 marks)

Q5(b): ABC Ltd. is a well-known company for producing baby care products. The company produces and sells two variants of organic shampoo for children: "Baby Rose" and "Baby Lily". The sales and cost data for both products are provided below:

Particulars	Baby Rose	Baby Lily
Current demand and Sales (Number of bottles)	4,000	3,000
Production Capacity (Number of bottles)	7,500	6,000
Selling Price per bottle (`)	600	750

Variable Costs per bottle:		
- Direct Materials (`20 per litre)	160	200
- Other Variable Costs	270	350

The fixed costs amount to `5,00,000 and `4,50,000 for Baby Rose and Baby Lily respectively. The Production Manager has informed that 1,00,000 litres of material is available for production. A dealer has approached the company and proposed to purchase both products at the existing selling prices, which are to be produced by utilizing the remaining unused material. However, he has insisted that all the bottles must be packed with eco-friendly packaging, which will result in an additional cost of `10 per bottle for the company. Presently, the company is not using eco-friendly material for packing of bottles.

Required: Prepare a detailed statement showing the overall contribution and profit of the company after acceptance of the dealer's proposal.

(CA Inter Sept 2024) (7 marks)

Q6(a): Describe any five benefits of the Digital Costing System.

(CA Inter Sept 2024) (5 marks)

Q6(b): Define the following terms:

(i) Controllable Variance (ii) Uncontrollable Variance (iii) Budget Manual

(iv) Performance Budgeting (v) Budget Period

(CA Inter Sept 2024) (5 marks)

Q6(c): Discuss the treatment of By-products in cost accounting.

(CA Inter Sept 2024) (4 marks)

Or Q6(c): Define Job costing and explain differences between job and batch Costing.

(CA Inter Sept 2024) (4 marks)