(GI-2, GI-6, GI-7, VI-1, VDI-1, DRIVE & FMT)

DATE: 25.09.2023 MAXIMUM MARKS: 100 TIMING: 31/4 Hours

COST AND MANAGEMENT ACCOUNTING

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

Question No. 1 is compulsory.

Candidates are also required to answer any Four questions from the remaining Five Questions.

In case, any candidate answers extra question(s)/sub-question(s) over and above the required number, then only the requisite number of questions first answered in the answer book shall be valued and subsequent extra question(s) answered shall be ignored.

Wherever necessary, suitable assumptions may be made and disclosed by way of note.

Answer 1:

(a) (i) Fixed cost for the year

Total Sales (43,200 units x Rs. 150 per unit) = Rs. 64,80,000

Break Even Sales = $Rs. 64,80,000 \times 25\% = Rs. 16,20,000$

Fixed cost = Break Even Sales x P/V ratio

= Rs. $16,20,000 \times 20\% =$ Rs. 3,24,000

(ii) Profit earned for the year

Profit = $(Total Sales \times P/V ratio) - Fixed cost$

 $= (Rs. 64,80,000 \times 20\%) - Rs. 3,24,000$

= Rs. 9,72,000

(iii) Margin of Safety in units

Margin of safety (units) = $\frac{\text{Pr} \text{ofit}}{G}$

Cont. per unit

 $=\frac{Rs. 9,72,000}{Rs. 30}$ = 32,400 units

(iv) No of units to be sold to earn a profit of Rs. 12,00,000

Desired Sales = $\frac{Fixed\ Cost + Desired\ Profit}{}$

Cont. per unit

 $= \frac{Rs. 3,24,000 + Rs. 12,00,000}{12,000}$

Rs. 30

= 50.800 units

(Each point 1.25 M)

Answer:

(b) Variable Cost per Unit = Change in Semi - variable cost under two production level

Change in production quantity in two levels

= Rs. 3,10,000 - Rs. 2,80,000 42,000 units - 36,000 units

= Rs. 5 per units }(2.5 M)

(b) Total Fixed Cost = Semi Variable Cost for 36,000 units – Variable cost for 36,000 units

 $= Rs. 2,80,000 - (36,000 units \times Rs. 5)$

= Rs. 1,00,000 (2.5 M)

MITTAL COMMERCE CLASSES

Answer:

(b)

(c) (a) Rated capacity 36.5 tonnes (Refers to the capacity of a machine or a plant as indicated by its manufacturer)

Practical capacity 30.0 tonnes [Defined as actually utilised capacity of a plant i.e. $\frac{36.5 \text{ tonnes}}{365 \text{ days}} \times (365-65) \text{ days}$

(c) Normal capacity 25.0 tonnes

(It is the capacity of a plant utilized based on sales expectancy)

(d) Actual capacity 25.2 tonnes (Refers to the capacity actually achieved)

(Each point 1.25 M)

Answer:

(d) (i) Statement of Equivalent Production (Using FIFO method)

Particulars	Input	Particulars	Output	Equivalent Production			
	Units		Units	Material		Labour & O.H.	
				%	Units	%	Units
Opening WIP	10,000	Completed and transferred to Process-II					
Units introduced	55,000	- From opening WIP	10,000	-		30	3,000
		- From fresh inputs	33,500	100	33,500	100	33,500
			43,500		33,500		36,500
		Normal Loss {5% (10,000 + 55,000 units)}	3,250	1			1
		Abnormal loss (9,500 – 3,250)	6,250	100	6,250	60	3,750
	65,000	Closing WIP	12,000 65,000	100	12,000 51,750	90	10,800 51,050

(Each Bold 1/10 M)

(ii) Abnormal Loss A/c

Particulars	Units	(Rs.)	Particulars	Units	(Rs.)
To Process-I A/c	6,250	29,698	By Cost Ledger Control A/c	6,250	53,125
(Refer Working Note-2)			(6,250 units × Rs. 8.5)		
To Costing Profit &	•	23,427			
Loss A/c					
	6,250	53,125		6,250	53,125

(Each Bold 1/10 M)

Working Notes:

1. Computation of Cost per unit

Particulars	Materials (Rs.)	Labour (Rs.)	Overhead (Rs.)
Input costs	2,20,000	26,500	61,500
Less: Realisable value of normal scrap (3,250 units x Rs. 8.5)	(27,625)		
Net cost	1,92,375	26,500	61,500
Equivalent Units	51,750	51,050	51,050
Cost Per Unit	3.7174	0.5191	1.2047

Total cost per unit = Rs. (3.7174 + 0.5191 + 1.2047) = Rs. 5.4412

(Each Bold 1/10 M)

2. Valuation of Abnormal Loss					

	(Rs.)
Materials (6,250 units × Rs. 3.7174)	23,233.75

Labour (3,750 units × Rs. 0.5191)	1,946.63
Overheads (3,750 units x Rs. 1.2047)	4,517.62
	29,698

Answer 2:

(a) Statement of Cost for the month of March, 2021 (2,30,000 = 1M) (Rest Bold = 1.8M)

Stat	ement of Cost for the month of March, 2021 (2,30,000)	= 1W) (Rest I	501a = 1.8M)
	Particulars	Amount	Amount
		(Rs.)	(Rs.)
(i)	Cost of Material Consumed:		
	Raw materials purchased (Rs. 2,00,000 – Rs. 40,000)	1,60,000	
	Carriage inwards	20,000	
	Add: Opening stock of raw materials	80,000	
	Less: Closing stock of raw materials	(30,000)	2,30,000
	Direct Wages		1,20,000
	Direct expenses:		
	Cost of special drawing	30,000	
	Hire charges paid for Plant	24,000	54,000
(ii)	Prime Cost		4,04,000
	Carriage on return	6,000	
	Store overheads (10% of material consumed)	23,000	
	Factory overheads (20% of Prime cost)	80,800	
	Additional expenditure for rectification of defective products (refer	2,160	1,11,960
	working note)		·
	Gross factory cost		5,15,960
	Add: Opening value of W-I-P		50,000
	Less: Closing value of W-I-P		(24,000)
(iii)	Works/ Factory Cost		5,41,960
	Less: Realisable value on sale of scrap		(5,000)
(iv)	Cost of Production		5,36,960
	Add: Opening stock of finished goods		
	Less: Closing stock of finished goods		
	Cost of Goods Sold		5,36,960
	Administrative overheads:		
	Maintenance of office building	2,000	
	Salary paid to Office staff	25,000	
	Legal Charges	2,500	29,500
	Selling overheads:		
	Expenses for participation in Industrial exhibition	8,000	8,000
	Distribution overheads:		
	Depreciation on delivery van	6,000	
	Warehousing charges	1,500	7,500
(v)	Cost of Sales		5,81,960

Alternative Solution (considering Hire charges paid for Plant as indirect expenses) Statement of Cost for the month of March, 2021

Particulars	Amount	Amount
	(Rs.)	(Rs.)
Cost of Material Consumed:		
Raw materials purchased (Rs. 2,00,000 – Rs. 40,000)	1,60,000	
Carriage inwards	20,000	
Add: Opening stock of raw materials	80,000	
Less: Closing stock of raw materials	(30,000)	2,30,000
Direct Wages		1,20,000

Direct expenses:		
Cost of special drawing	30,000	30,000
Prime Cost		3,80,000
Hire charges paid for Plant	24,000	
Carriage on return	6,000	
Store overheads (10% of material consumed)	23,000	
Factory overheads (20% of Prime cost)	76,000	
Additional expenditure for rectification of defective products (refer working note)	2,160	1,31,160
Gross factory cost		5,11,160
Add: Opening value of W-I-P		50,000
Less: Closing value of W-I-P		(24,000)
Works/ Factory Cost		5,37,160
Less: Realisable value on sale of scrap		(5,000)
Cost of Production		5,32,160
Add: Opening stock of finished goods		-
Less: Closing stock of finished goods		-
Cost of Goods Sold		5,32,160
Administrative overheads:		
Maintenance of office building	2,000	
Salary paid to Office staff	25,000	
Legal Charges	2,500	29,500
Selling overheads:		
Expenses for participation in Industrial exhibition	8,000	8,000
Distribution overheads:		
Depreciation on delivery van	6,000	
Warehousing charges	1,500	7,500
Cost of Sales		5,77,160

Working Notes:

1. Number of Rectified units

2. Proportionate additional expenditure on 720 units

- = 20% of proportionate direct wages
- = 0.20 x (Rs. 1,20,000/8,000) x 720
- = Rs. 2,160

Answer:

(b)

Production Budget of Product Minimax and Heavyhigh (in units)

						, ,	/	
	April		May		June		Total	
	MM	HH	MM	HH	MM	HH	MM	HH
Sales	8,000	6,000	10,000	8,000	12,000	9,000	30,000	23,000
Add: Closing Stock	2,500	2,000	3,000	2,250	4,000	3,500	9,500	7,750
(25% of next month's sale)								
Less: Opening Stock	2,000*	1,500*	2,500	2,000	3,000	2,250	7,500	5,750
Production units	8,500	6,500	10,500	8,250	13,000	10,250	32,000	25,000

^{*} Opening stock of April is the closing stock of March, which is as per company's policy 25% of next month" sale.

(Each bold 1/4 M)

Production Cost Budget

	Rate	Rate (Rs.) Amount (Rs.)		
Element of cost	MM	HH	MM	HH

MITTAL COMMERCE CLASSES

	(32,000 units)	(25,000 units)		
Direct Material	220	280	70,40,000	70,00,000
Direct Labour	130	120	41,60,000	30,00,000
Manufacturing Overhead (4,00,000 ÷ 1,80,000 × 32,000)			71,111	
$(5,00,000 \div 1,20,000 \times 25,000)$				1,04,167
			1,12,71,111	1,01,04,167

(Each bold 1/4 M)

Answer 3:

(a) Statement of Cost

	F:	ъ	T (1/D)
	First three	Remaining nine	Total (Rs.)
	months (Rs.)	months (Rs.)	
	37,500 units	1,68,750 units	2,06,250 units
Direct material	18,75,000	84,37,500	1,03,12,500
Direct employee cost	6,00,000	27,00,000	33,00,000
Indirect - variable expenses	3,75,000	16,87,500	20,62,500
Indirect - fixed expenses	8,12,500	24,37,500	32,50,000
Indirect - semi-variable expenses			
- For first three months @ Rs.	1,20,000		1,20,000
40,000 p.m.			
- For remaining nine months @		6,30,000	6,30,000
Rs. 70,000* p.m.			
Total cost	37,82,500	1,58,92,500	1,96,75,000
Desired profit	•	-	10,00,000
Sales value	-	-	2,06,75,000
Average selling price per unit			100.24

^{*} Rs. 40,000 for 50% capacity + Rs. 15,000 for 20% increase in capacity + Rs. 15,000 for 5% increase in capacity (because cost is increased for every 20% increase in capacity or part thereof)

(Each bold 1/2 M)

Answer:

(b)

(i)	i) Process- A Account					
Particulars	Units	Amount (Rs.)	Particulars	Units	Amount (Rs.)	
To Input	40,000	` '	By Normal wastage	2,000	30,000	
To Material		2,42,000	(2,000 units × Rs. 15) By Abnormal loss A/c	1,000	27,000	
To Direct wages		2,58,000	(1,000 units × Rs. 27) By Process- B	29,600	7,99,200	
To Manufacturing Exp.		1,96,000	(29,600 units × Rs. 27) By Profit & Loss A/c (7,400 units × Rs. 27)	7,400	1,99,800	
	40,000	10,56,000	(7, 100 dime x 10. 27)	40,000	10,56,000	

(Each bold 1/5 M)

Cost per unit = $\frac{10,56,000 - 30,000}{40,000 \text{ units} - 2,000 \text{ units}} = 27 \text{ per unit}$

Normal wastage = 40,000 units $\times 5\% = 2,000$ units

Abnormal loss = 40,000 units - (37,000 units + 2,000 units) = 1,000 units

Transfer to Process- B = 37,000 units $\times 80\% = 29,600$ units Sale = 37,000 units $\times 20\% = 7,400$ units

Process- B Account

	1 100000 D 71000uiit							
Particulars	Units	Amount	Particulars	Units	Amount			
		(Rs.)			(Rs.)			
To Process- A A/c	29,600	7,99,200	By Normal wastage	2,960	59,200			
			(2,960 units × Rs. 20)					
To Material		2,25,000	By Profit & Loss A/c					
			(27,000 units × Rs. 48)	27,000	12,96,000			
To Direct Wages		1,90,000						
To Manufacturing Exp.		1,23,720						
To Abnormal Gain A/c	360	17,280						
(360 units × Rs. 48)		•						
	29,960	13,55,200		29,960	13,55,200			

(Each bold 1/5 M)

Cost per unit $= \frac{13,37,920 - 59,200}{29,600 \text{ units} - 2,960 \text{ units}} = 48 \text{ per unit}$

Normal wastage = $29,600 \text{ units} \times 10\% = 2,960 \text{ units}$

Abnormal gain = (27,000 units + 2,960 units) - 29,600 units = 360 units

(ii) Profit & Loss Account

Particulars	Amount	Particulars	Amount
	(Rs.)		(Rs.)
To Process- A A/c	1,99,800	By Sales:	
To Process- B A/c	12,96,000	- Process-A	2,73,800
		$(7,400 \text{ units} \times \text{Rs.} 37)$	
To Abnormal loss A/c	12,000	- Process- B	16,47,000
		(27,000 units × Rs. 61)	
To Indirect Expenses	4,48,080	By Abnormal gain	10,080
		By Net loss	25,000
	19,55,880		19,55,880

(Each bold 1/5 M)

Working Notes:

Normal wastage (Loss) Account

Particulars	Units	Amount	Particulars	Units	Amount
		(Rs.)			(Rs.)
To Process- A A/c	2,000	30,000	By Abnormal Gain A/c	360	7,200
			(360 units × Rs. 20)		
To Process- B A/c	2,960	59,200	By Bank (Sales)	4,600	82,000
	4,960	89,200		4,960	89,200

(Each bold 1/5 M)

Abnormal Loss Account

/ 10 11 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
Particulars	Units	Amount	Particulars	Units	Amount	
		(Rs.)			(Rs.)	
To Process- A A/c	1,000	27,000	By Bank A/c	1,000	15,000	
			(1,000 units × Rs. 15)			
			By Profit & Loss A/c		12,000	
	1,000	27,000		1,000	27,000	

(Each bold 1/5 M)

Abnormal Gain Account

Particulars	Units	Amount	Particulars	Units	Amount
		(Rs.)			(Rs.)
To Normal loss A/c	360	7,200	By Process- B A/c	360	17,280

(360 units × Rs. 20)				
To Profit & Loss A/c		10,080		
	360	17,280	360	17,280

(Each bold 1/5 M)

Answer 4:

(a) (i) Material Usage Variance = Std. Price (Std. Quantity – Actual Quantity)

= Rs. 90 (9,000 kg. - 8,900 kg.)

= Rs. 9,000 (Favourable)

(ii) Material Price Variance = Actual Quantity (Std. Price – Actual Price)

= 8,900 kg. (Rs. 90 - Rs. 92) = Rs. 17,800 (Adverse)

(iii) Material Cost Variance = Std. Material Cost – Actual Material Cost

 $= (SQ \times SP) - (AQ \times AP)$

 $= (9,000 \text{ kg.} \times \text{Rs.} 90) - (8,900 \text{ kg.} \times \text{Rs.} 92)$

= Rs. 8,10,000 - Rs. 8,18,800

= Rs. 8,800 (Adverse)

(iv) Labour Efficiency Variance = Std. Rate (Std. Hours – Actual Hours)

= Rs. 80 ($\frac{9,000}{10}$ x 8 hours – 7,000 hrs.)

= Rs. 80 (7,200 hrs. - 7,000 hrs.)

= Rs. 16,000 (Favourable)

(v) Labour Rate Variance = Actual Hours (Std. Rate – Actual Rate)

= 7,000 hrs. (Rs. 80 - Rs. 84)

= Rs. 28,000 (Adverse)

(vi) Labour Cost Variance = Std. Labour Cost – Actual Labour Cost

 $= (SH \times SR) - (AH \times AR)$

= $(7,200 \text{ hrs.} \times \text{Rs.} 80) - (7,000 \text{ hrs.} \times \text{Rs.} 84)$

= Rs. 5,76,000 - Rs. 5,88,000

= Rs. 12,000 (Adverse)

(vii) Variable Cost Variance = Std. Variable Cost – Actual Variable Cost

 $= (7,200 \text{ hrs.} \times \text{Rs.} 20) - \text{Rs.} 1,40,000$

= Rs. 4,000 (Adverse)

(viii) Fixed Overhead Cost Variance= Absorbed Fixed Overhead - Actual Fixed Overhead

$$= \frac{250}{10 \ kgs} \times 9,000 \text{kgs.} - \text{Rs.} \, 2,60,000$$

= Rs. 2,25,000 - Rs. 2,60,000 = Rs. 35,000 (Adverse)

(Each point = 1.25 M)

Answer:

(b) Working Notes:

1. Total Distance (in km.) covered per month

	,			
Bus route	Km. per trip	Trips per day	Days per month	Km. per month
Delhi to Hisar	160	2	9	2,880
Delhi to Aligarh	160	2	12	3,840
Delhi to Alwar	170	2	6	2,040
Total				8,760

(Bold 3/4 M)

2. Passenger- km. per month

Total seats available	Capacity	utilised	Km. per	Passenger-
per month (at 100%	(%)	Seats	trip	Km. per
capacity)				month

Delhi to Hisar &	900	90	810	160	1,29,600
Back	(50 seats \times 2 trips \times 9				(810 seats ×
	days)				160 km.)
Delhi to Aligarh	1,200	95	1,140	160	1,82,400
& Back	(50 seats × 2 trips × 12				(1,140 seats
	days)				× 160 km.)
Delhi to Alwar &	600	100	600	170	1,02,000
Back	(50 seats \times 2 trips \times 6				(600 seats ×
	days)				170 km.)
Total	4,14,000				

(Bold 3/4 M)

Monthly Operating Cost Statement

Widning Operating Cost Statem	CIIL	
Particulars	(Rs.)	(Rs.)
(i) Running Costs		
Diesel {(8,760 km ÷ 5 km) × Rs. 90}	1,57,680.00	
Lubricant oil {(8,760 km ÷ 100) × Rs. 30}	2,628.00	1,60,308.00
(ii) Maintenance Costs		
Repairs & Maintenance		5,000.00
(iii) Standing charges		
Salary to driver	30,000.00	
Salary to conductor	26,000.00	
Salary of part-time accountant	7,000.00	
Insurance (Rs. 6,000 ÷12)	500.00	
Road tax (Rs. 21,912 ÷12)	1,826.00	
Permit fee	500.00	
Depreciation {(Rs. 15,00,000 × 30%) ÷ 12}	37,500.00	1,03,326.00
Total costs per month before Passenger Tax (i)+(ii)+(iii)		2,68,634.00
Passenger Tax*		1,07,453.60
Total Cost		3,76,087.60
Add: Profit*		1,61,180.40
Total takings per month		5,37,268.00

*Let total takings be X then,

(Each bold 1/4 M)

X = Total costs per month before passenger tax + 0.2 X (passenger tax) + 0.3 X (profit)

X = Rs. 2,68,634 + 0.2 X + 0.3 X

0.5 X = Rs. 2,68,634 or, X = Rs. 5,37,268

Passenger Tax = 20% of Rs. 5,37,268 = Rs. 1,07,453.60Profit = 30% of Rs. 5,37,268 = Rs. 1,61,180.40

Calculation of Rate per passenger km. and fares to be charged for different routes Rate per Passenger-Km.

Total takings per month Total Passenger - Km. per month

Rs. 5,37,268 Rs. 4,14,000 Passenger-Km. = Rs. 1.30 (approx.) }{2 M}

Bus fare to be charged per passenger:

Delhi to Hisar	=	Rs. 1.30 x 160 km	=	Rs. 208.00
Delhi to Aligarh	=	Rs. 1.30 x 160 km	=	Rs. 208.00
Delhi to Alwar	=	Rs. 1.30 x 170 km	=	Rs. 221.00

=

(Each bold ¾ M)

Answer 5:

(a) (i) Statement of Operating income and Operating income as a percentage of revenues for each product line

(When support costs are allocated to product lines on the basis of cost of goods sold of each

product)

product)				
	Soft Drinks	Fresh Produce	Packaged	Total
	(Rs.)	(Rs.)	Foods (Rs.)	(Rs.)
Revenues: (A)	39,67,500	1,05,03,000	60,49,500	2,05,20,000
Cost of Goods sold (COGS): (B)	30,00,000	75,00,000	45,00,000	1,50,00,000
Support cost (30% of COGS):	9,00,000	22,50,000	13,50,000	45,00,000
(C) (Refer working notes)				
Total cost: (D) = $\{(B) + (C)\}$	39,00,000	97,50,000	58,50,000	1,95,00,000
Operating income: E= {(A)-(D)}	67,500	7,53,000	1,99,500	10,20,000
Operating income as a percentage	1.70%	7.17%	3.30%	4.97%
of revenues: (E/A) × 100)				

(Each bold 1/8 M)

Working notes:

1. Total support cost:

(Rs.)
60,000
7,80,000
12,60,000
8,64,000
15,36,000
45,00,000

(Each bold 1/8 M)

2. Percentage of support cost to cost of goods sold (COGS):

$$= \frac{\text{Total support cost}}{\text{Total cost of goods sold}} \times 100$$

$$= \frac{\text{Rs. } 45,00,000}{\text{Rs. } 1,50,00,000} \times 100 = 30\%$$
(30% = $\frac{3}{4}$ M)

3. Cost for each activity cost driver:

	,		
Activity	Total cost	Cost allocation base	Cost driver rate $(4)=[(2)\div(3)]$
(1)	(Rs.) (2)	(3)	
Ordering	7,80,000	1,560 purchase orders	Rs. 500 per purchase order
Delivery	12,60,000	3,150 deliveries	Rs. 400 per delivery
Shelf-stocking	8,64,000	8,640 hours	Rs. 100 per stocking hour
Customer support	15,36,000	15,36,000 items sold	Rs. 1 per item sold
			/=

(Each bold 1/8 M)

(ii) Statement of Operating income and Operating income as a percentage of revenues for each product line

(When support costs are allocated to product lines using an activity- based costing system)

	Soft drinks	Fresh Produce Packaged		Total
	(Rs.)	(Rs.)	Food	(Rs.)
			(Rs.)	
Revenues: (A)	39,67,500	1,05,03,000	60,49,500	2,05,20,000
Cost & Goods sold	30,00,000	75,00,000	45,00,000	1,50,00,000
Bottle return costs	60,000	0	0	60,000
Ordering cost* (360:840:360)	1,80,000	4,20,000	1,80,000	7,80,000

Delivery cost*	1,20,000	8,76,000	2,64,000	12,60,000
(300:2190:660)				
Shelf stocking cost*	54,000	5,40,000	2,70,000	8,64,000
(540:5400:2700)	4.26.000	11 01 000	2.06.000	45.26.000
Customer Support cost* (1,26,000:11,04,000:3,06,000)	1,26,000	11,04,000	3,06,000	15,36,000
Total cost: (B)	35,40,000	1,04,40,000	55,20,000	1,95,00,000
Operating income C:{(A)- (B)}	4,27,500	63,000	5,29,500	10,20,000
Operating income as a % of	10.78%	0.60%	8.75%	4.97%
revenues				

^{*} Refer to working note 3

(Each bold 1/8 M)

(b) A shop floor supervisor of a small factory presented the following cost for Job No. 303, to determine the selling price.

	Per unit (Rs.)
Materials	70
Direct wages 18 hours @ Rs. 2.50	
(Deptt. X 8 hours; Deptt. Y 6 hours; Deptt. Z 4 hrs)	45
Chargeable expenses	5
	120
Add: 33-1/3 % for expenses cost	40
	160

Analysis of the Profit/Loss Account (For the year 20X2)

				·
		(Rs.)		(Rs.)
Materials used		1,50,000	Sales less returns	2,50,000
Direct wages :				
Deptt. X	10,000			
Deptt. Y	12,000			
Deptt. Z	8,000	30,000		
Special stores items		4,000		
Overheads :				
Deptt. X	5,000			
Deptt. Y	9,000			
Deptt. Z	2,000	16,000		
Works cost		2,00,000		
Gross profit c/d		50,000		
		2,50,000		2,50,000
Selling expenses		20,000	Gross profit b/d	50,000
Net profit		30,000		
		50,000		50,000

It is also noted that average hourly rates for the three Departments X, Y and Z are similar.

- (i) Draw up a job cost sheet.
- (ii) Calculate the entire revised cost using 20X2 actual figures as basis.
- (iii) Add 20% to total cost to determine selling price.

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(b)		Job Cost Sheet	
	Customer Details ————	Job No	
	Date of commencement ———	Date of completion	

Particulars Particulars	Amount (Rs.)
Direct materials	70
Direct wages:	
Deptt. X Rs. 2.50 x 8 hrs. = Rs. 20.00	
Deptt. Y Rs. 2.50 x 6 hrs. = Rs. 15.00	
Deptt. Z Rs. 2.50×4 hrs. = <u>Rs. 10.00</u>	45
Chargeable expenses	5
Prime cost	120
Overheads:	
Deptt. X = $\frac{Rs. 5,000}{Rs. 10,000}$ × 100 = 50% of Rs. 20 = Rs. 10.00	
Deptt. Y = $\frac{Rs. 9,000}{Rs. 12,000} \times 100 = 75\%$ of Rs. 15 = Rs. 11.25	
Deptt. $Z = \frac{Rs. 2,000}{Rs. 8,000} \times 100 = 25\%$ of Rs. $10 = Rs. 2.50$	23.75
Works cost	143.75
Selling expenses = $\frac{Rs.\ 20,000}{Rs.\ 2,00,000} \times 100 = 10\%$ of work cost	14.38
Total cost	158.13
Profit (20% of total cost)	31.63
Selling price	189.76

(Each bold 1M)

Answer 6:

Cost Unit of Industries: (a)

S. No.	Industry	Cost Unit Basis	
(i)	Electricity	Kilowatt-hour (kWh)	
(ii)	Automobile	Number	
(iii)	Cement	Ton/ per bag etc.	
(iv)	Steel	Ton	{Each Point
(v)	Gas	Cubic feet	1>-
(vi)	Brick-making	1,000 bricks	1/2 M}
(vii)	Coal mining	Tonne/ton	
(viii)	Engineering	Contract, job	
(ix)	Professional services	Chargeable hour, job, contract	
(x)	Hospitals	Patient day	

Answer:

Method of Costing (b)

S.No.	Industry	Method of Costing)
(i)	Oil Refinery	Process Costing	{Eacl
(ii)	Interior Decoration	Job Costing	Poin
(iii)	Airlines Company	Operation/ Service Costing	1
(iv)	Advertising	Job Costing	1 M
(v)	Car Assembly	Multiple Costing	J

Answer:

Zero-based Budgeting: (ZBB) is an emergent form of budgeting which arises to overcome the (c) limitations of incremental (traditional) budgeting system. Zero- based Budgeting (ZBB) is defined as 'a method of budgeting which requires each cost element to be specifically justified, \{1.5 M} although the activities to which the budget relates are being undertaken for the first time, without approval, the budget allowance is zero'.

ZBB is an activity based budgeting system where budgets are prepared for each activities rather than functional department. Justification in the form of cost benefits for the activity is required to be given. The activities are then evaluated and prioritized by the management on the basis of factors like synchronisation with organisational objectives, availability of funds, regulatory requirement etc.

{1.5 M}

ZBB is suitable for both corporate and non-corporate entities. In case of non-corporate entities like Government department, local bodies, not for profit organisations, where these entities need to justify the benefits of expenditures on social programmes like mid-day meal, installation of street lights, provision of drinking water etc.

ZBB involves the following stages:

(i) Identification and description of Decision packages
 (ii) Evaluation of Decision packages
 (iii) Ranking (Prioritisation) of the Decision packages
 1/2 M}

(iv) Allocation of resources

Answer:

(d) Treatment of items in arriving at the value of cost of material Purchased

S. No.	Items	Treatment	
(i)	Detention charges/ Fine	Detention charges/ fines imposed for non-compliance of rule or law by any statutory authority. It is an abnormal cost and not included with cost of purchase.	
(ii)	Demurrage	Demurrage is a penalty imposed by the transporter for delay in uploading or offloading of materials. It is an abnormal cost and not included with cost of purchase.	
(iii)	Cost of returnable containers	Treatment of cost of returnable containers are as follows: Returnable Containers: If the containers are returned and their costs are refunded, then cost of containers should not be considered in the cost of purchase. If the amount of refund on returning the container is less than the amount paid, then, only the short fall is added with the cost of purchase.	
(iv)	Central Goods and Service Tax (CGST)	Central Goods and Service Tax (CGST) is paid on manufacture and supply of goods and collected from the buyer. It is excluded from the cost of purchase if the input credit is available for the same. Unless mentioned specifically CGST is not added with the cost of purchase.	
(v)	Shortage due to abnormal reasons	Shortage arises due to abnormal reasons such as material mishandling, pilferage, or due to any avoidable reasons are not absorbed by the good units. Losses due to abnormal reasons are debited to costing profit and loss account.	

{Each Point 1 M}

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