

SUGGESTED ANSWERS

CA INTER

Test Code - JK-COS-11

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Answers

Q.1

(a)

Stores ledger for the month of January

Date	Receipts		Issues			Balance			
	Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount
January									
1							10,000	2	20,000
5				1,000	2	2,000	9,000	2	18,000
6				2,000	2	4,000	7,000	2	14,000
10				500	2	1,000	6,500	2	13,000
15				2,000	2	4,000	4,500	2	9,000
20				3,000	2	6,000	1,500	2	3,000
25				1,000	2	2,000	500	2	1,000
31	5,000	2	10,000				500	2	1,000
							5,000	2	10,000

Total Value of Closing Stock: 5,500 Units, ₹ 11,000

Marking System:

1 mark each for transactions on 10th, 20th and 25th, 1/2 marks each for transactions on 5th, 6th, 15th and 31st.

(b)

Total Labour Cost			27,000
Less: Time Rate Wages			
Helper	100 Hours X 20 per hour	2,000	
Labourer	200 Hours X 20 per hour	4,000	
	300 Hours X 20 per hour X 2	12,000	[10,000]
Welders	Welders	12,000	[18,000]
Piece Rate Premium			9,000

When we distribute Piece Rate Premium in the ratio of Time Rate Wages [9,000 in 2,000:4,000:12,000], piece rate premium of helper will be ₹ 1,000, of labourer will be ₹ 2,000 and of welders it will be ₹ 6,000.

Calculation of Total Wages for each category of worker

Particulars	Helper	Labour	Welders
Time Rate Wages	2,000	4,000	12,000
Piece Rate Premium	1,000	2,000	6,000
Total Wages	3,000	6,000	18,000

Marking System:

- 3 Marks for Piece Rate Premium
- 2 Marks for distribution of piece rate premium

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(c)

(i)

Fixed Cost 40,000

Net Profit 20,000

Contribution 60,000

B.E.P. in Rupees =
$$\frac{\text{Fixed Cost}}{\text{P/V Ratio}}$$

P/V Ratio =
$$\frac{\text{Fixed Cost}}{\text{B.E.P. in Rupees}} \times 100$$

P/V Ratio =
$$\frac{40,000}{80,000}$$
 x 100 = 50%

Sales required

100 50 1,20,000 ? 60,000

Sales Required = ₹ 1,20,000

(ii)

B.E.P. in Rupees =
$$\frac{\text{Fixed Cost}}{\text{P/V Ratio}}$$

P/V Ratio =
$$\frac{\text{Fixed Cost}}{\text{B.E.P. in Rupees}} \times 100$$

P/V Ratio =
$$\frac{4,00,000}{16,00,000}$$
 x 100 = 25%

Contribution = Sales X P/V Ratio

Contribution = 20,00,000 X 25%

Contribution = 5,00,000

 Contribution
 5,00,000

 Less: Fixed Cost
 [4,00,000]

 Net Profit
 1,00,000

Profit = ₹ 1,00,000

Marking System:

2.5 Marks for each correct answer

(d)

Reconciliation Note

No.	Reasons	Cost	Financial	Difference
[1]	[2]	[3]	[4]	[5]=[3]-[4]
1	Opening Stock	MORE	LESS	+ 30,000 A
2	Closing Stock	MORE	LESS	+ 15,000 L
3	Preliminary Expenses		36,000	- 36,000 L
4	Factory Overheads	LESS	MORE	-19,000 L
5	Administration Overheads	LESS	MORE	- 45,500 L
6	Interest earned (Cr)		7,500	- 7,500 A
7	Rent received (Cr)		54,000	- 54,000 A
8	Selling Overheads	MORE	LESS	+ 39,000 A
9	Bad Debts		18,000	- 18,000 L
10	Stock Adjustment (Cr)		5,000	- 5,000 A

Reconciliation Statement

	Particulars	Amt.	Amt.
Pro	fit as per Cost A/C		2,91,000
Add	1:		
1.	Opening Stock overvalued in Cost A/C	30,000	
2.	Interest earned not recorded in Cost A/C	7,500	
3.	Rent received not recorded in Cost A/C	54,000	
4.	Selling Overheads Over absorbed in Cost A/C	39,000	
5.	Stock Adjustment not recorded in Cost A/c	5,000	1,35,500
			4,26,500
Les	s:		
1.	Closing Stock of Finished Goods overvalued in Cost	15,000	
	A/C		
2.	Preliminary Expenses not recorded in Cost A/C	36,000	
3.	Factory Overheads Under absorbed in Cost A/C	19,000	
4.	Administration Overheads Under absorbed in Cost	45,500	
	A/C		
5.	Bad Debts not recorded in Cost A/C	18,000	[1,33,500]
Pro	fit as per Financial A/C		2,93,000

Marking System:

1/2 mark for each adjustment

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Q.2

(a)

Cost Sheet of X Limited

Particulars Produced	???	Units	Total	Cost	C.P.U.
Sold	???	Units	₹	₹	₹
Raw Materials Consumed					
Opening Stock of Raw Mater	ials		2,00,000		
[+] Purchases of Raw Materia	ıls		25,00,000		
[-] Closing Stock of Raw Mat	erials		[9,45,000]	17,55,000	?
Direct Wages				22,22,500	?
Prime Cost				39,77,500	?
Add: Factory Overheads [In	<u>idirect</u>			14,81,667	?
Manufacturing Overheads]					
Gross Factory Cost				54,59,167	?
[+] Op. St. of W.I.P.				4,00,000	?
[-] Cl. St. of W.I.P.				[6,78,917]	?
Factory/Works Cost				51,80,250	?
Add: Administration Overh	eads [F	Related to		NIL	?
Production]					
Cost of Production				51,80,250	?
[+] Opening Stock of Finished	d Goods	5		3,77,500	?
[-] Closing Stock of Finished	Goods			[3,07,750]	?
Cost of Goods Sold				52,50,000	?
Add: Marketing Overheads	[Sellin	g and		NIL	?
<u>Distribution Overheads</u>]					
Cost of Sales				52,50,000	?
Profit [75,00,000 - 52,50,000]				22,50,000	?
Sales				75,00,000	?

Value of Closing Inventory

Raw Materials	9,45,000
Work-in-Progress	6,78,917
Finished Goods	3,07,750

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W.N.1

Factory Overheads [Indirect Manufacturing Overheads]

22,22,500

60

14,81,667

???

40

Conversion cost includes wages and overheads. Factory overheads are 40% of conversion cost. Thus wages must be 60% of conversion cost.

W.N.2

Closing Stock of Finished Goods

Step 1: Gross Factory Cost = 39,77,500 + 14,81,667 = 54,59,167

Step 2:

Cost of Production

Total cost of goods available for sale =

Cost of Production of Goods produced in current year + Cost of Opening Stock of Finished Goods

$$55,57,750 = x + 3,77,500$$

$$x = 51,80,250$$

Cost of Production = x = 51,80,250

Since there is no Administration Overheads related to production, Cost of Production = Factory Cost.

Step 3:

Calculation of Cost of Sales

Sales

75,00,000

100 70 52,50,000

??? Cost of Sales = 52,50,000

Profit = 75,00,000 - 52,50,000

=22,50,000

Since there is no Selling and Distribution Overheads, Cost of Sales = Cost of Goods Sold.

Step 4:

Closing Stock of Finished Goods

$$51,80,250 + 3,77,500 - x = 52,50,000$$

$$x = 3,07,750$$

Closing Stock of Finished Goods = x = 3,07,750

Step 5:

Closing Stock of Work-in-Progress

$$54,59,167 + 4,00,000 - x = 51,80,250$$

$$x = 6,78,917$$

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Closing Stock of Work-in-Progress = x = 6,78,917

Step 6:

Raw Materials Consumed

39,77,500 - 22,22,500 = 17,55,000

Step 7:

Closing Stock of Raw Materials

2,00,000 + 25,00,000 - x = 17,55,000

x = 9,45,000

Closing Stock of Raw Materials = x = 9,45,000

Marking System:

- 2 Marks for Cost of Production/Factory Cost
- 2 Marks for Cost of Sales/Cost of Goods Sold
- 1 Mark each for Closing Stock of R.M., W.I.P., F.G.
- 4 Marks for Cost Sheet preparation
- 1 Mark for indicating answer in writing for Closing Stock of R.M., W.I.P., F.G.

(b)

Dr. Contract A/c Cr.

Particulars		Amt.	Particulars		Amt.
To Work In Progress [Open	ning]		By Work In Progress		
Work Certified	94,00,000		Work Certified	3,00,00,000	
Work Uncertified	1,12,000	95,12,000	Work Uncertified	3,20,000	3,03,20,000
To Material at site		80,000	By Materials returned to	<u></u>	
(Opening Stock)			Stores		2,50,000
To Materials purchased		40,00,000	Suppliers		1,50,000
To Materials issued		15,00,000	By Material at site (Cl.	Stock)	2,00,000
from stores			By Material sold		10,000
To Wages		59,80,000			
To Supervisor's fees		5,10,000			
To Plant hire charges		5,00,000			
To Other Expenses		1,00,000			
To share of general		1,80,000			
overheads for this					
contract					
[18,00,000 X 1/10]					
To Fines		1,20,000			
To Depreciation		75,000			
To Profit & Loss A/C		83,73,000*			
[Notional Profit]					
		3,09,30,000			3,09,30,000

: 6:

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Dr. Contractee's A/c Cr.

Particulars	Amt.	Particulars	Amt.
		By Balance b/f	75,20,000
		[94,00,000 X 80%]	
To Balance c/f	2,40,00,000*	By Cash/Bank A/C	1,64,80,000
		[3,00,00,000 - 94,00,000 =	
		2,06,00,000]	
		[2,06,00,000 X 80%]	
	2,40,00,000		2,40,00,000

W.N. 1: Wages

	59,80,000
Less: Outstanding at the beginning	[50,000]
Add: Outstanding at the end	30,000
Paid	60,00,000

W.N. 2: Depreciation

		75,000
For next 6 months:	5,00,000 X 10% X 6/12	25,000
For first 6 months:	10,00,000 X 10% X 6/12	50,000

Marking System:

- 3 Marks for Contract A/C preparation
- 4 Marks for Contractee's A/C Preparation
- 1 Mark for Wages calculation
- 1 Mark for Wages Depreciation
- 1 Mark for share of general overheads calculation

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Q.3

(a)

No.	Particulars	Anil	Bajaj
A.	Time Allowed [Hours]	62.50	55
B.	Time Taken [Hours]	54	48
C.	Time Saved [Hours] [A - B]	8.50	7
D.	Rate Per Hour [Rupees/Hour]	50	80
E.	Basic Wages [Rupees] [B X D]	2,700	3,840
F.	Normal Hours	42	42
G.	Overtime Hours [B - F]	12	6
H.	Overtime Wages [Rupees]	225	120
I.	Bonus Wages [Rupees]	85	112
J.	Total Wages [E + H + I]	3,010	4,072
H.	Direct Wages cost per dozen [Rupees]	32.88	18.84

Particulars	Anil	Bajaj
Bonus earned	85	112
Gross Wages	3,010	4,072
Direct Wages Cost Per dozen	32.88	18.84

W.N. 1:

Time Allowed [Hours]

Anil			Bajaj		
Minutes	Units		Minutes	Units	
30	12	62.50	150	144	55.00
???	1,500	Hours	???	3,168	Hours

W.N. 2:

W.N. 2: Overtime Wages [Rupees]

Anil Overtime Rate

First 6 hours	50 x 1/4	12.50/Hour
For next 6 hours	50 x 1/2	25.00/Hour

Overtime Wages

	225
6 Hours X 25.00/Hour	150
6 Hours X 12.50/Hour	75

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Bajaj Overtime Rate

First 6 hours 80 x 1/4 20.00/Hour

Overtime Wages

6 Hours X 20.00/Hour 120

W.N. 2

Bonus Wages [Rupees]

Anil 8.50 Hours X 50/Hour X 1/5 85 Bajaj 7 Hours X 80/Hour X 1/5 112

W.N. 3

Direct Wages cost per dozen

No.	Particulars	Anil	Bajaj
A.	Work allotted [in Units]	1,500	3,168
B.	Work rejected [in Units]	400	568
C.	Actual Output [in Units] [A - B]	1,100	2,600

Anil $\frac{3,010}{1,100}$ 2.74 per unit

2.74 per unit x 12 Units = ₹ 32.88

Bajaj $\frac{4,072}{2,600}$ 2.74 per unit

1.57 per unit x 12 Units = ₹ **18.84**

Marking System:

- 1 Mark for Overtime Hours calculation
- 2 Marks for Overtime Wages Calculation
- 2 Marks for Bonus Amount Calculation
- 2 Marks for Gross Wages Calculation
- 3 Marks for Direct Wages cost per dozen [as it includes overtime treatment]

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(b)

Dr. Process I A/c	Cr.

Particulars	Quantity	Amount	Particulars	Quantity	Amount
To Materials input	16,000	19,200	By Normal Loss	1,280	640
[16,000 X 1.20]			[16,000 X 8%]		
To Indirect Materials		336	[1,280 X 0.50]		
To Labour		720	By Abnormal Loss	720*	1,152
To Overheads		1,728	By Output transferred		
[720 X 240%]			to next process	14,000	22,400*
To Royalty		2,208			
[14,720 X 0.15]					
	16,000	24,192		16,000	24,192

Dr. Abnormal Loss A/c Cr.

		1 = 10 = 2 = 2 = 2 = 2 = 2	2 2000 12,0		
Particulars	Quantity	Amount	Particulars	Quantity	Amount
To Process I A/c	720	1,152	By Cash Bank A/c	720	360
			[[720 X 0.50]		
			By Royalty Payable		108
		\	A/c		
			By Costing P & L A/c		684*
	720	1,152		720	1,152

Dr. Royalty Payable A/c Cr.

Particulars	Quantity	Amount	Particulars	Quantity	Amount
To Abnormal Loss	720	108	By Process I A/c	14,720	2,208
A/c [720 x 0.15]					
To Balance c/f	14,000	2,100			
[14,000 x 0.15]					
	14,720	2,208		14,720	2,208

Working Note 1: Valuation of Abnormal Loss

 $Cost Per Unit = \frac{Total of Debit - Normal Loss in in Rupees}{Total Input Units - Normal Loss in Units}$

Cost Per Unit =
$$\frac{24,192 - 640}{16,000 - 1,280}$$
$$= \frac{23,552}{14,720}$$

= ₹ 1.60 per kg

720 kgs X 1.60 per kg = ₹ 1,152

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Marking System:

5 marks for Process A/C 2 marks each for Abnormal Loss A/C and Royalty Payable A/C 1 Mark for WN of Abnormal Loss

Q.4

(a)

Calculation of Absorption Rate and its interpretation

No.	Method	Formula	Absorption Rate	Interpretation
1	Machine	Budgeted Fixed Overheads	15,00,000	Fixed Overheads will be
	Hour	Budgeted Machine Hours	30,000	absorbed at the rate of
			50/Mach.Hr	₹ 50 per Machine Hour.
2	Labour	Budgeted Fixed Overheads	15,00,000	Fixed Overheads will be
	Hour	Budgeted Labour Hours	15,000	absorbed at the rate of
			100/Lab.Hr	₹ 100 per Labour Hour.
3	Labour Cost	Budgeted Fixed Overheads Budgeted Labour Cost x 100	15,00,000 30,00,000 x 100 50% of Labour Cost	Fixed Overheads will be absorbed at the rate of 50% of Labour Cost
4	Material Cost	Budgeted Fixed Overheads Budgeted Material Cost x 100	15,00,000 7,50,000 x 100 200% of Material Cost	Fixed Overheads will be absorbed at the rate of 200% of Material Cost.
5	Prime Cost	Budgeted Fixed Overheads Budgeted Prime Cost	15,00,000 37,50,000 x 100 40% of Prime Cost	Fixed Overheads will be absorbed at the rate of 40% of Prime Cost.

W.N. 1

Total Budgeted Fixed Overheads

Fixed Factory Overheads

Fixed Administration Overheads [related to production]

5,00,000

15,00,000

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W.N. 2

Prime Cost

Material Cost [in ₹] 7,50,000 Labour Cost [in ₹] 30,00,000

37,50,000

No.	Method	Suitability
1	Output	When company is producing only one product OR Multiple but similar
		products.
2	Machine	When Production Process is machine oriented.
	Hour	
3	Labour	When Production Process is Labour oriented and overheads depend upon
	Hour	Labour Time.
4	Labour	When Production Process is Labour oriented and overheads depend upon
	Cost	Labour Type.
5	Material	When Overheads depend upon Material Consumed.
	Cost	when Overheads depend upon Material Consumed.
6	Prime	When overheads depend upon Material Consumed and Wages Paid.
	Cost	

Marking System:

1/2 Mark each for calculation of absorption rate.

1/2 mark each for interpretation.

Overall 5 marks for suitability.

25,00,000

100

(b)

Statement showing total cost and gross fees for the period of 1 year

8	0		•
Rent of Office	[35,000 x 12]		4,20,000
Salary of Article clerk	[5,000 x12 x 3]		1,80,000
Salary of other office staff	[10,000 x12 x 5]		6,00,000
Salary of peons	[2,500 x 12 x 2]		60,000
Electricity charges	[10,000 x 12]		1,20,000
Repairs and Maintenance			50,000
Conveyance paid to staff and articles	[5,000 x 12]		60,000
Communication cost	[3,500 x 12]		42,000
Insurance			36,000
Refreshment Expenses	[2,500 x 12]		30,000
Depreciation			
Air Conditioner			8,500
Car			1,00,000
Diesel Cost			1,25,000
General Expenses			1,68,500
Total Cost		80	20,00,000
Profit [25,00,000 - 20,00,000]		20	5,00,000

Let the fees to be charged per return for class A assesses be x.

Thus, the fees to be charged per return for class B assesses be 2x.

Thus, the fees to be charged per return for class C assesses be 3x.

Gross Fees

Gross Fees

Class A 40,000 Returns X x per return	40,000x
Class B 30,000 Returns X 2x per return	60,000x
Class C 50,000 Returns X 3x per return	1,50,000x
	2,50,000x

However, Gross Fees = 25,00,000

Thus,

$$2,50,000x = 25,00,000$$

$$X = \frac{25,00,000}{2,50,000} = 10$$

Fees to be charged from class A assesses per return = x = 700

Fees to be charged from class B assesses per return = $2x = 2 \times 10 = 20 \times 10^{-3}$

Fees to be charged from class C assesses per return = $3x = 3 \times 10 = ₹30$

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W.N. 1

Diesel Cost

18,000	90	20,000 kms
???	100	
Litre	KM	
1	8	2,500 litres
???	20,000	

2,500 litres X 50 per litre = 1,25,000

W.N. 2

Depreciation

Air Conditioner

Total Cost [25,000 per A.C. X 2 A.C.s] 50,000 + 35,000 = 85,000 85,000 X 10% p.a. = 8,500 p.a.

<u>Car</u>

$$\frac{11,00,000-1,00,000}{10 \text{ Years}} = 1,00,000 \text{ p.a.}$$

Marking System

5 Marks for the cost statement

5 marks for the Fees calculation

Q.5

(a)

Ordering Cost per order

	₹ 10,000/Order
Loading/Unloading charges	₹ 5,000/Order
Communication Cost	₹ 2,000/Order
Carriage	₹ 3,000/Order

Carrying Cost per Unit Per Annum

Warehouse Cost	₹ 5.00 per unit per annum
Insurance Cost	₹ 15.00 per unit per annum
Cost of Working Capital Finance [200 Per Unit X 10% per annum]	₹ 20.00 per unit per annum
	7 10 00 man weit man ammuna

₹ 40.00 per unit per annum

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Annual requirement of Raw Materials

Finished Goods [Units] Raw Materials [Kgs]
1 2
25,000 ?

50,000 kgs per annum

$$E.O.Q. = \sqrt{\frac{2ACa}{Ci}}$$

$$E.O.Q. = \sqrt{\frac{2 \times 50,000 \times 10,000}{40}}$$

E.O.Q. = 5,000 Kgs

T.A.C. = TCa + TCi + P.C.

$$T.A.C. = \frac{A}{Q} \times Ca + \frac{Q}{2} \times Ci + A \times C.P.U.$$

T.A.C. =
$$\frac{50,000}{5,000}$$
 x 10,000 + $\frac{5,000}{2}$ x 40 + 50,000 x 200

T.A.C. = 1,00,000 + 1,00,000 + 1,00,00,000

T.A.C. = ₹ 1,02,00,000

T.A.C. = Total Inventory Associated Cost including purchase cost

Marking System:

1 Mark for Ordering Cost Calculation

1 Mark for Carrying Cost Calculation

1 Mark for Total Cost calculation

1 Mark for Annual Quantity Calculation

1 Mark for E.O.Q.

(b)

Given Standard

Output - 1 Unit

Hours	Rate	Amt.₹
5	5.00	25

Calculation of Revised Standard

Units	Hours	
1	5	50,000
10,000	???	Hours

Revised Standard

Output - 10,000 Units

Hours	Rate	Amt
50,000	5.00	2,50,000

Actuals

Output - 10,000 Units

Hours	Rate	Amt
60,000	6	3,60,000

Working Note 1:

Calculation of actual rate per hour 3,60,000/60,000 = ₹ 6 per hour

1. Total Variable Overheads Cost Variance

2,50,000 - 3,60,000 = 1,10,000 A

2. <u>Variable Overheads Expenditure Variance</u>

[5-6] X 60,000 = 60,000 A

3. Variable Overheads Expenditure Variance

$$[50,000 - 60,000] X 5 =$$
50,000 A

Marking System:

2 marks for showing the workings

1 mark each for each of the three variances.

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(c)

(i)

S.P.P.U. - V.C.P.U. = Contribution Per Unit

20.00 - 15.00 = 5.00

B.E.P. in Volume
$$=\frac{6,30,000}{5.00} = 1,26,000 \text{ Units}$$

B.E.P. in Value = 1,26,000 Units X ₹ 20 per unit = ₹ 25,20,000

(ii)

Profit required = 10% on sales

Let x units be required to be sold to earn net profit of 10% on sales.

Total Sales Value at x units = x units X 20 per unit

20x

Total Variable Cost at x units = x units X 15 per unit

15x

Profit to be earned at x units = 10% of sales = 10% of 20x

2x

Contribution = Fixed Cost + Net Profit

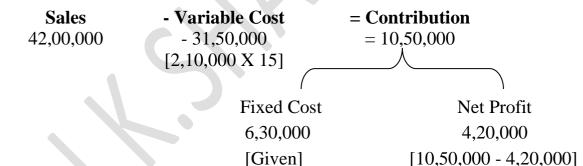
$$5x = 6,30,000 + 2x$$

$$5x - 2x = 6,30,000$$

$$3x = 6,30,000$$

$$x = \frac{6,30,000}{3} = 2,10,000 \text{ units}$$

Sales in Value = 2,10,000 units X ₹ 20 per units = ₹ 42,00,000



Check

$$=\frac{4,20,000}{42,00,000} \times 100$$

= 10%

Sales required to earn net profit of 10% on Sales = ₹ 42,00,000

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(iii)

Profit required		60,000
Break Even Point		6,30,000
Contribution required		6,90,000
Total Sales	1,38,000 units X 20 p.u.	27,60,000
Break Even Point	1,26,000 units X 20 p.u.	[25,20,000]
Margin of Safety		2,40,000

Units Contribution Per Unit

1 5 ? 6,90,000

Total Sales = 1,38,000 Units

Sales which will give contribution of ₹ 6,90,000 will give profit of ₹ 60,000

(iv)

New Break Even Point in Value = 1,20,000 units

In case of Break Even Point

Contribution = Fixed Cost

Here, Fixed Cost = ₹ 6,30,000, hence we have to earn contribution of ₹ 6,30,000 by selling 1,20,000 units.

Contribution per unit

 $\frac{\text{Contribution}}{\text{Number of Units}} = \frac{6,30,000}{1,20,000} = 5.25 \text{ p.u.}$

Variable Cost Per Unit

Contribution Per Unit

Selling Price Per Unit

15.00

5.25

20.25

Marking System:

1 mark for required part i.

3 marks each for all other required parts

Q.6

(a)

The main steps involved in installing a costing system in a manufacturing unit may be outlined as below:

- (i) The objectives of installing a costing system in a manufacturing concern and the expectations of the management from such a system should be identified first. The system will be a simple one in the case of a single objective but will be an elaborate one in the case of multiple objectives.
- (ii) It is important to ascertain the significant variables of the manufacturing unit which are amenable to control and affect the concern. For example, quite often the production costs control may be more important than control of its marketing cost. Under such a situation, the costing system should devote greater attention to control production costs.
- (iii) A thorough study to know about the nature of business, its technical aspects; products, methods and stages of production should also be made. Such a study will facilitate in selecting a proper method of costing for manufacturing unit.
- (iv) A study of the organisation structure, its size and layout etc., is also necessary. This is useful to management to determine the scope of responsibilities of various managers.
- (v) The costing system should be evolved in consultation with the staff and should be introduced only after meeting their objections and doubts, if any. The cooperation of staff is essential for the successful operation of the system.
- (vi) Details of records to be maintained by the costing system should be carefully worked out. The degree of accuracy of the data to be supplied by the system should be determined.
- (vii) The forms to be used by foreman, workers, etc., should be standardised. These forms be suitably designed and must ensure minimum clerical work at all stages.
- (viii) Necessary arrangements should be made for the flow of information/data to all concerned managers, at different levels, regularly and promptly.
- (ix) Reconciliation of costs and financial accounts be carried out regularly, if they are maintained separately.
- (x) The costing system to be installed should be easy to understand and simple to operate.

Marking System:

1/2 mark per each point

(b)

There are certain steps involved in the budgetary control technique. They are as follows:

- **(i) Definition of Objectives:** A budget being a plan for the achievement of certain operational objectives, it is desirable that the same are defined precisely. The objectives should be written out; the areas of control demarcated; and items of revenue and expenditure to be covered by the budget stated.
- (ii) Location of the key (or budget) factor: There is usually one factor (sometimes there may be more than one) which sets a limit to the total activity. Such a factor is known as key factor. For proper budgeting, it must be located and estimated properly.
- (iii) Appointment of controller: Formulation of a budget usually required whole time services of senior executive known as budget controller; he must be assisted in this work by a Budget Committee, consisting of all the heads of department along with the Managing Director as the Chairman.
- **(iv) Budget Manual:** Effective budgetary planning relies on the provision of adequate information which are contained in the budget manual. A budget manual is a collection of documents that contains key information for those involved in the planning process.
- (v) **Budget period:** The period covered by a budget is known as budget period. The Budget Committee determines the length of the budget period suitable for the business. It may be months or quarters or such periods as coincide with period of trading activity.
- (vi) Standard of activity or output: For preparing budgets for the future, past statistics cannot be completely relied upon, for the past usually represents a combination of good and bad factors. Therefore, though results of the past should be studied but these should only be applied when there is a likelihood of similar conditions repeating in the future.

Marking System:

Any 5 Points, 1 Mark each

(c)

Flexible Budget: A flexible budget is defined as "a budget which, by recognizing the difference between fixed, semi-variable and variable cost is designed to change in relation to the level of activity attained". A fixed budget, on the other hand is a budget which is designed to remain unchanged irrespective of the level of activity actually attained. In a fixed budgetary control, budgets are prepared for one level of activity whereas in a flexibility budgetary control system, a series of budgets are prepared one for the each of a number of alternative production levels or volumes. Flexible budgets represent the amount of expense that is reasonably necessary to achieve each level of output specified. In other words, the allowances given under flexibility budgetary control system serve as standards of what costs should be at each level of output.

Marking System:

Overall 5 Marks

(d)

These contracts provide for the payment by the contractee of the actual cost of manufacture plus a stipulated profit, mutually decided between the two parties. The main features of these contracts are as follows:

- 1. The practice of cost-plus contracts is adopted in the case of those contracts where the probable cost of the contracts cannot be ascertained in advance with a reasonable accuracy.
- 2. These contracts are preferred when the cost of material and labour is not steady and the contract completion may take number of years.
- 3. The different costs to be included in the execution of the contract are mutually agreed, so that no dispute may arise in future in this respect. Under such type of contracts, contractee is allowed to check or scrutinize the concerned books, documents and accounts.
- **4.** Such a contract offers a fair price to the contractee and also a reasonable profit to the contractor.
- 5. The contract price here is ascertained by adding a fixed and mutually pre-decided component of profit to the total cost of the work.

Marking System:

1 Mark per each point

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(e)

Fixed cost – These are costs, which do not change in total despite changes of a cost driver. A fixed cost is fixed only in relation to a given relevant range of the cost driver and a given time span. Rent, insurance, depreciation of factory building and equipment are examples of fixed costs where the final product produced is the cost object.

Variable costs – These are costs which change in total in proportion to changes of cost driver. Direct material, direct labour are examples of variable costs, in cases where the final product produced is the cost object.

Marking System:

2.5 Marks each