

INTER CA – MAY 2018

3 : COST AND

MANAGEMENT

PAPER 3 : ACCOUTING Branch: Multiple

Date:

Note: Question 1 is compulsory. Attempt any five from the rest.	
Question 1	
A) (1/2 mark for each point)	
1. Actual hours worked last year	8,84,000 hours
2. Unproductive Training Hours = 40% of 60,000	24,000 hours
3. Actual Productive Hours worked last year	8,60,000 hours
4. Sales per productive hour worked = $\frac{1,66,06,600}{8,60,000}$	` 19.31 per hour
5. Gross Profit (or Contribution) per productive hour = 20% of Sales `19.31	` 3.862 per hour
6. Total Labour Hours lost due to Labour Turnover = 2,00,000 (given) + 24,000 (unproductive	2,24,000 hours
7. Gross Profit foregone due to Labour Turnover = > 3.862 x 1,24,000 hours	`8,65,088
8. Additional Expenses incurred due to Labour Turnover	2,34,912
(Settlement Cost 87,640 + Recruitment Cost 53,480 + Selection Cost 32,812 + Training Cost 60,980)	
9. Total Profit foregone due to Labour Turnover (7 + 8)	` 11,00,000
Note: Alternatively, CB foregone can be calculated for potentially productive hours of 2,00,000 be	

Note: Alternatively, GP foregone can be calculated for potentially productive hours of 2,00,000 hours only.

B) (2.5 marks for each product)

Product	Р	Q	Total
Production / Sale Quantity	8,000 units	6,000 units	
	8,000 x 13.75 = 1,10,000	6,000 x 8.75 = 52,500	
Sales Values			` 1,62,500
Less: Profit at 25/125 of Sale Price	` 22,000	` 10,500	` 32,500
Total Cost = Sales Less Profit	` 88,000	` 42,000	` 1,30,000
Less: Further Processing Costs	8,000 x 5 = 40,000	6,000 x 4 24,000	` 64,000
Estimated NRV at split-off	` 48,000	` 18,000	` 66,000
Joints Costs apportioned in NRV ratio	` 64,000	` 24,000	88,000
So, Joint Cost Per Unit	64,000 ÷ 8,000 = ` 8.00	24,000 ÷ 6,000 = ` 4.00	

C)

1. Absolute Tonne-Km (2.5 marks) 2. Commercial Tonne-Km (2.5 marks)	
= A to B + B to C + C to A = Average Load x Total distance travelled	
= (24 MT x 270 km) + (14 MT x 150 km) + (18 MT x 325 km) = 6,480 + 2,100 + 5,850 = 14,430 Tonne – Kilometers. = 18.67 Tonnes x 745 Kms = 13,907 Tonne - Kilometers	eters.

Jonatho	Particulars	A	B	C	Total
	Sales Quantity	10,000 units	15,000 units	5,000 units	1 N
	Selling Price p.u.	₹ 10	₹ 12	₹ 20	
	Sales Value	1,00,000	1,80,000	1,00,000	3,80,000
Less:	Variable Costs (balancing figure)	35,000	75,000	55,000	1,65,000
-	Contribution (Fixed Cost + Profit)	65,000	1,05,000	45,000	2,15,000
Less:	Fixed Costs (given)	40,000	45,000	25,000	1,10,000
	Profit (as % of Sale Price, given)	25,000	60,000	20,000	1,05,000
	Individual PV Ratio	65%	58.33%	45%	0000
	Overall P	V Ratio = Total Contrit	value × 100 =	₹ 2,15,000 ₹ 3,80,000 =	56.58%
Lots T	A Daries and a second s	Overall BEP = = Total Over	Fixed Costs	₹1,10,000 56.58% =	1,94,415
	Overal MOS	= Total Sales - Overall	BES = ₹ 3,80,00	0 - ₹ 1.94,415	1,85,585
100.17	2. Evaluation of P	roduct-wise Profitabl	lity next year	в	(
-	2. Evaluation of P Particulars	roduct-wise Profitab	lity next year	В	
(a) Sell	2. Evaluation of P Particulars ing Price p.u. (as per last year)	roduct-wise Profitab	A ₹ 10.00	B ₹ 12.00	₹ 20.0
(a) Sell (b) Var	2. Evaluation of P Particulars ing Price p.u. (as per last year) iable Costs p.u. (as per last year) (Total VC ÷	Quantity)	A ₹ 10.00 ₹ 3.50	8 ₹ 12.00 ₹ 5.00	₹ 20.0 ₹ 11.0
(a) Sell (b) Var (c) Var	2. Evaluation of P Particulars ing Price p.u. (as per last year) iable Costs p.u. (as per last year) (Total VC ÷ iable Costs p.u. for next year (b + 10%)	Quantity)	lity next year A र 10.00 र 3.50 र 3.85	B ₹ 12.00 ₹ 5.00 ₹ 5.50	₹ 20.00 ₹ 11.00 ₹ 12.10
(a) Sell (b) Var (c) Var (d) Rev	2. Evaluation of P Particulars ing Price p.u. (as per last year) iable Costs p.u. (as per last year) (Total VC ÷ iable Costs p.u. for next year (b + 10%) rised Contribution p.u. for next year (a - c)	Quantity)	A ₹ 10.00 ₹ 3.50 ₹ 3.85 ₹ 6.15	B ₹ 12.00 ₹ 5.00 ₹ 5.50 ₹ 6.50	₹ 20.0 ₹ 11.0 ₹ 12.1 ₹ 7.9 nit should b
(a) Sell (b) Var (c) Var (d) Rev Since r preferr Presen 37,500	2. Evaluation of P Particulars ing Price p.u. (as per last year) iable Costs p.u. (as per last year) (Total VC ÷ lable Costs p.u. for next year (b + 10%) rised Contribution p.u. for next year (a - c) machine time for the 3 products are the sa ed. Hence, Product C should be produced a t Total Output = 10,000 + 15,000 + 5,000 units. Hence, additional 7,500 units of Produ	Quantity) me, the product yieldir idditionally next year, so = 30,000 units at 809 ct C will be produced ne	A ₹ 10.00 ₹ 3.50 ₹ 3.85 ₹ 6.15 ig the highest of as to reach full 6 capacity. Hence st year.	B ₹ 12.00 ₹ 5.00 ₹ 5.50 ₹ 6.50 ontribution per ut l capacity. ce, Total Capacity	₹ 20.00 ₹ 11.00 ₹ 12.10 ₹ 7.9 nit should b = 30,000 80%
(a) Sell (b) Var (c) Var (d) Rev Since r preferr Presen 37,500	2. Evaluation of P Particulars ing Price p.u. (as per last year) iable Costs p.u. (as per last year) (Total VC ÷ iable Costs p.u. for next year (b + 10%) rised Contribution p.u. for next year (a - c) machine time for the 3 products are the sa red. Hence, Product C should be produced a t Total Output = 10,000 + 15,000 + 5,000 units. Hence, additional 7,500 units of Produ 3. Marginal Cost Sta	Quantity) me, the product yieldin idditionally next year, so = 30,000 units at 809 ct C will be produced ne tement (for next year	A ₹ 10.00 ₹ 3.50 ₹ 3.85 ₹ 6.15 og the highest cooreach fullos capacity. Hence storeach fullos capacity.	B ₹ 12.00 ₹ 5.00 ₹ 5.50 ₹ 6.50 ontribution per un I capacity. xe, Total Capacity xy)	₹ 20.00 ₹ 11.00 ₹ 12.10 ₹ 7.90 nit should be = 30,000 80%
(a) Sell (b) Var (c) Var (d) Rev Since r preferr Presen 37,500	2. Evaluation of P Particulars ing Price p.u. (as per last year) iable Costs p.u. (as per last year) (Total VC ÷ iable Costs p.u. for next year (b + 10%) rised Contribution p.u. for next year (a - c) machine time for the 3 products are the sa red. Hence, Product C should be produced a t Total Output = 10,000 + 15,000 + 5,000 units. Hence, additional 7,500 units of Produ 3. Marginal Cost Sta Particulars •	Quantity) Quantity) me, the product yieldir idditionally next year, so = 30,000 units at 809 ct C will be produced ner tement (for next year A	A ₹ 10.00 ₹ 3.50 ₹ 3.85 ₹ 6.15 ig the highest coordination of the coordination of t	B ₹ 12.00 ₹ 5.00 ₹ 5.50 ₹ 6.50 ontribution per un I capacity. re, Total Capacity xy) C	₹ 20.00 ₹ 11.00 ₹ 12.10 ₹ 12.10 ₹ 7.90 nit should be = 30,000 80%
(a) Sell (b) Var (c) Var (d) Rev Since r preferr Presen 37,500 Sales (2. Evaluation of P Particulars ing Price p.u. (as per last year) iable Costs p.u. (as per last year) (Total VC ÷ iable Costs p.u. for next year (b + 10%) rised Contribution p.u. for next year (a - c) machine time for the 3 products are the sa red. Hence, Product C should be produced a t Total Output = 10,000 + 15,000 + 5,000 units. Hence, additional 7,500 units of Produ 3. Marginal Cost Sta Particulars • Quantity	Quantity) Quantity) me, the product yieldir idditionally next year, so = 30,000 units at 809 ct C will be produced ner tement (for next year A 10,000 units	A A ₹ 10.00 ₹ 3.50 ₹ 3.85 ₹ 6.15 ig the highest of a sto reach full 6 capacity. Hence is capacity. Hence is to reach full 5 capacity. Hence is to reach full 5 capacity. Hence 15,000 units	B ₹ 12.00 ₹ 5.00 ₹ 5.50 ₹ 6.50 ontribution per un I capacity. te, Total Capacity te, Total Capacity te, Total Capacity te, Total Capacity	₹ 20.00 ₹ 11.00 ₹ 12.11 ₹ 7.9 nit should b = 30,000 80%
(a) Sell (b) Var (c) Var (d) Rev Since r preferr Presen 37,500 Sales (Contrit	2. Evaluation of P Particulars ing Price p.u. (as per last year) iable Costs p.u. (as per last year) (Total VC ÷ iable Costs p.u. for next year (b + 10%) rised Contribution p.u. for next year (a - c) machine time for the 3 products are the sa ed. Hence, Product C should be produced a t Total Output = 10,000 + 15,000 + 5,000 runits. Hence, additional 7,500 units of Produ 3. Marginal Cost Sta Particulars • Quantity pution p.u. for next year (as per WN 2)	Quantity) Quantity) me, the product yieldir idditionally next year, so = 30,000 units at 809 ct C will be produced ner tement (for next year A 10,000 units ₹ 6.15	A A ₹ 10.00 ₹ 3.50 ₹ 3.85 ₹ 6.15 • g the highest coordination of the second fullowing the reach fullowing the reach fullowing the reach fullowing the reaction of the second fullowing the reaction of the second fullowing the se	B ₹ 12.00 ₹ 5.00 ₹ 5.50 ₹ 6.50 ₹ 6.50 ontribution per ull capacity. trapacity. xe, Total Capacity xe, Total Capacity xy) C 12,500 units ₹ 7.90 ₹ 7.90 ₹ 7.90	₹ 20.00 ₹ 11.00 ₹ 12.11 ₹ 7.9 nit should b = 30,000 80%
(a) Sell (b) Var (c) Var (d) Rev Since r preferr Presen 37,500 Sales (Contrit	2. Evaluation of P Particulars ing Price p.u. (as per last year) iable Costs p.u. (as per last year) (Total VC + iable Costs p.u. for next year (b + 10%) ised Contribution p.u. for next year (a - c) machine time for the 3 products are the sa ed. Hence, Product C should be produced a t Total Output = 10,000 + 15,000 + 5,000 units. Hence, additional 7,500 units of Produ 3. Marginal Cost Sta Particulars Quantity pution p.u. for next year (as per WN 2) Contribution	Quantity) Quantity) me, the product yieldir idditionally next year, so = 30,000 units at 809 ct C will be produced ner tement (for next year 10,000 units cf 6.15 61,500	A A ₹ 10.00 ₹ 3.50 ₹ 3.85 ₹ 6.15 ig the highest coordination of the second fullowing the second full	B ₹ 12.00 ₹ 5.00 ₹ 5.50 ₹ 6.50 ontribution per unit capacity. tcapacity. xe, Total Capacity xy) C 12,500 units ₹ 7.90 98,750 26,000	₹ 20.0 ₹ 11.0 ₹ 12.1 ₹ 7.9 nit should b = 30,000 80% Tota 2,57,75 1.10.00
(a) Sell (b) Var (c) Var (d) Rev Since r preferr Presen 37,500 Sales C Contrit Less:	2. Evaluation of P Particulars Ing Price p.u. (as per last year) Iable Costs p.u. (as per last year) (Total VC + Iable Costs p.u. for next year (b + 10%) Ised Contribution p.u. for next year (a - c) machine time for the 3 products are the sa ed. Hence, Product C should be produced a t Total Output = 10,000 + 15,000 + 5,000 units. Hence, additional 7,500 units of Produ 3. Marginal Cost Sta Particulars Quantity Dution p.u. for next year (as per WN 2) Contribution Fixed Costs (given)	Quantity) Quantity) me, the product yieldin dditionally next year, so = 30,000 units at 809 ct C will be produced ner tement (for next year 10,000 units tement (for next year A 10,000 units tement (for next year A 10,000 units tement (for next year A	A ₹ 10.00 ₹ 3.50 ₹ 3.85 ₹ 6.15 ig the highest of a sto reach full 6 capacity. Hend 4 year. at full capacit B 15,000 units ₹ 6.50 97,500 45,000	B ₹ 12.00 ₹ 5.00 ₹ 5.50 ₹ 6.50 ontribution per ut capacity. xe, Total Capacity Y) C 12,500 units ₹ 7.90 98,750 25,000	₹ 20.0 ₹ 11.0 ₹ 12.1 ₹ 7.9 nit should b = 30,000 80% Tot 2,57,75 1,10,00 1.47,75

Question 2

A) Let Present Cost be ` C and Profit be ` P. The breakup of Materials, Labour & OH are as below – (4 marks)

	Particulars	Existing		Proposed	
		Working	`	Working	`
	Direct Materials	0.5C	15,000	0.5C + 15% = 0.575C	17,250
	Direct Wages	0.2C	6,000	0.2C + 25% = 0.250C	7,500
	Overheads	0.3C	9,000	Same as existing = 0.300C	9,000
	TOTAL COST	С	30,000	1.125C	33,750
Add:	Profit	Р	15,000	P Less 25% = 0.75P	、
	SELLING PRICE	45,000	45,000	(based on Old Price) 45,000	`

Note: Amount Column is filled up after the following computations. (4 marks)Comparing Present situation:C + P = 45,000 (Equation 1)Comparing Proposed situation:1.125C + 0.75P = 45,000 (Equations 2)Multiplying Equation 1 by 0.75,0.750C + 0.75P = 33,750Subtracting, we have0.375C = 11,250

Therefore $C = \frac{11,250}{0.375} = 30,000$. Substituting in Equation 1, we have, P = 45,000 - 80,000 = 15,000. Present Percentage of Profit to Sales = $\frac{15,000}{45,000} = 33.33\%$ on sales. [1/3rd on Sales = ½ on Cost.] New Cost = $1.125C = 1.125 \times 30,000 = 33,750$ Hence, New Selling Price = New Cost + Profit Margin = 33,750 + 50% on Cost, i.e. 16,875 = 50,625.

B) 1.	Effective Machine Operating I	Hours = 200 ho	ours x 75% = 150 hours p of Machino Hour Pate	per month. (1 mark	s)
	Partic	ulars (4 marks)			Per Hour
A Machi	ine related Overheads		/	27	700 18.00
a) De	preciation Fixed	(` 3.24.000 x	10%) ÷ 12 months	15.0	100.00
b) Po	wer Variable	Given		3.0	20.00
c) Su	pervision Fixed	Given		7,5	500 50.00
d) Ele	ec. & Lighting Variable	Given		17,5	500 116.67
e) Re	pairs and Maint.Variable	Given		1.3	354 9.03
f) Ins	surance Fixed	` 16,250 ÷	12 months	2,2	292 15.28
g) Ot	her Gen.Exps Fixed	` 27,500 ÷	12 months		
	Total Machine	e Related OH (3	3 marks)	49,3	346 328.98
3. Wage:	s Basic: Machineman `125 x	200/8	= 3,125		
	Attendant > 75 x 200/8		= 1,875		
	Dearness Allowance ` 1.5	75 x 2 workers	<u>= 3.150</u>		
_	Sub-Total (Basic + DA)	= 8,150			
Ac	Id: Production Bonus at 1	/3 rd of above	= 2,717		
	Id: Leave Wages and Holi	day Pay at 10%	<u> </u>	11,6	<u>582</u> 77.88
l otal Ov	erheads (including Labour Co	st element)		61,0	128 406.86
2. Nu 3. As 4. Tir •	Timber of Orders p.a. = $\frac{Annual}{Quant}$ sociated Cost p.a. = Buying Co = (No. of O = [100 x ` f ming of next purchase order: Annual Requirement = 40 Hence, Present Stock of 3 Since Lead-Time is 3 days	Requirement (A) ity Ordered (Q) ost per annum rders x Cost per B] + $\left[\frac{400}{2}x^{2}, 4\right]$,000 units over 33 packets will and Present St	$\frac{40,000}{400} = 100 \text{ orders p}$ + Carrying Cost per ann er Order) + (Avg. Inventor p.u] = ` 800 + ` 800 = ` 360 days, (given). be sufficient for $\frac{360}{40,000}$ tock Quantity can meet	er annum. hum bry x Carrying Cost p 1,600 x 333 = 3 days only only the Lead Time	o.u. p.a.) e Consumption (sin
Note: If da	there is no Buffer Stock), t Lead Time were 2 days, the o ys, emergency purchases sho	the next order rder can be pla uld be made.	should be placed imme aced even on the follov	diately. ving day. However,	if Lead Time were
B) (2	marks for each)			Damagn	
ACTIV	Ly Cost Driver Rat	es		Personal Loans	Gold Visa
Providino ATM Serv	Vice $\frac{1,00,000}{2,00,000} = 0.50 \text{ per Tr}$	ansactions	1,80,000 x 0.50 = 90,000	_	20,000 x 0.50 = 10,000
Compute Processir	$\frac{10,00,000}{25,00,000} = 0.40 \text{ per Tr}$	ansactions	20,00,000 x 0.40 = 8,00,000	2,00,000 x 0.40 = 80,000	3,00,000 x 0.40 = 1,20,000
lssuing Statemei	nts	tatements	3,00,000 x 1.60 = 4,80.000	50,000 x 1.60 = 80.000	1,50,000 x 1.60 = 2,40.000
Custome	1 3,60,000 _ 0 40 por Tol	Minuto	3.50.000 x 0.60	90.000 x 0.6	1.60.000 x 0.60
Services	<u>6,00,000</u> = 0.00 per Tel.	winnute	- 2 10 000	= 54 000	- 96 000

Services

Total Cost

Units of Product

Cost per unit

= 96,000

4,66,000

10,000

46.60

= 54,000

2,14,000

5,000

42.80

= 2,10,000

15,80,000

30,000

52.67

Questions 4

A)	1. Creditors Account (1 mark)					
	Particulars Particulars					
Mar	To Bank (Payments made, given)	1,05,000	1 Mar	By balance b/d (Opg. Bal, given)	30,000	
31 Mar	To balance c/d (Closing Bal, given)	15,000	Mar	By Purchases - (bal. figure)	90,000	
	Total	1,20,000		Total	1,20,000	

2. Finished Goods Control Account (1 mark)

	Particulars	`		Particulars	`
1 Mar	To balance b/d (Opg FG, given)	75,000	Mar	By COS A/c (COGS, given)	1,95,000
Mar	To WIP Ctrl (goods completed) (b/f)	1,86,000	31 Mar	By balance c/d (Clg.Bal, given)	66,000
	Total	2,61,000		Total	2,61,000

3. Factory OH Control Account (1 mark)

	Particulars	``		Particulars	``
Mar	Various Expenses (Total Debits, given)	45,000	Mar	By WIP Control (absorbed, Note)	42,300
			31 Mar	By bal.c/d (under-absorbed)(b/f)	2,700
	Total	45,000		Total	45,000

6**,**75**,**000 = Note: Factory OH Recovery Rate = $\frac{Budgeted \ Factory \ Overheads}{budgeted \ direct \ Labour \ Hours}$ = 4,50,000 1.50 per Direct Labour Hour

So, Factory OH applied to Production = Actual DLH x FOH Recovery Rate = 28,200 hours x 1.50 = 42,300 The difference in the Factory OH Control A/c represents under-absorption (as computed in the Ledger A/c above), which is carried forward pending identification of reasons for difference into Normal and Abnormal Reasons. Alternatively, such under-absorption Qiay be fully transferred to Costing P&L Account. (1 mark)

4. WIP Control Account (3 marks)

_	Particulars			Particulars	
1 Mar	To balance b/d (Opg WIP, given)	6,000	Mar	By WIP Control A/c (from WN 2)	1,86,000
Mar	To Stores Ledger Control A/c (b/f)	78,000		(FG tfr to Warehouse)	
	 being Direct Materials Consumed 				
Mar	To Wages Control (Direct Wages)				
	28,200 hours x ? 2.50 (Note b)	70,500			
Mar	To POH Control (Absorbed) (WN 3)	42,300	31 Mar	By bal.c/d (Clg.Bal, Note (a))	10,800
	Total	1,96,800		Total	1,96,800

Notes: (1 mark)

(a) Value of Closing WIP = Direct Material Cost + Direct Labour Cost + Applied POH = given ` 6,000 + given ` 3,000 + (1,200 hrs x ` 1.50 ph) = ` 10,800

(b) Wage Rate Direct Labour Hour (based on information given for Closing WIP)

Direct Labour Cost of WIP (on 31st March) = ` 3,000, and Direct Labour Hours of WIP = 1,200 hours So, Direct Wage Rate per hour = $\frac{3,000}{1,200 hours}$ - = ` 2.50 per DLH.

B) (2 marks for each process account, 2 marks for the working)

Solution:	1. P	ocess "A"	Account		
Particulars	Qtty	7	Particulars	Qtty	2
To Basic Raw Material at ₹ 1.10 p.u.	10,000	11,000	By Process B – Production transfer	9,500	25,075
To Direct Materials	a state of a	1,500	By Normal Loss (5% of 10,000)	500	125
To Direct Labour	required to	4,500	a first and the state of the of the		
To Direct Expenses		1,000			
To POH (160% of Labour)	100.00	7,200			
Total	10,000	25,200	Total	10,000	25,200
		2. Process	"B" Account	10000	-
Particulars	Qtty	7	Particulars	Qtty	
To Process – A Transfer	9,500	25,075	By Process C - Production transfer	9,120	48,185
To Direct Materials		1,500	By Normal Loss (4% of 9,500)	380	19
To Direct Labour		8,000	L LUM PANIS	The state	
To Direct Expenses		1,000			
To POH (160% of Labour)	- chadres	12,800	1 1 1 1 1 1	-	
Total	9,500	48,375	Total	9,500	48,37
		Process	C Account		tomit? I
Particulars	Qtty	7	Particulars	Qtty	1
To Process B Transfer	9,120	48,185	By Finished Goods A/c- transfer	Y	
To Direct Materials	2729.51	500	By Normal Loss	×	1.1.1.1
To Direct Labour		6,500	1		10,000
To Direct Expenses		991	ALL OTAL	- Andrewson and	
To POH (160% of Labour)		10,400	and the state in the second		
Total	9,120	66,576	Total	9,120	66,57
Let Normal Loss be X units and Fi	nished Outp	but be Y un	its.		

Value of Normal Loss = X units × ₹ 1 = X

Simultaneous Equations are derived as under -

Comparing Amount (?) Columns, we have: X + 8Y = 66,576 (Equation 1)

Comparing Quantity Columns, we have:X + Y = 9,120 (Equation 2)Subtracting the equations, we have $\overline{2Y} = 57,456$ So, Y = 8,208

912 = 10%. If Y = 8,208, then X = 9,120 - 8,208 = 912. So, Percentage of Loss in Process C = $\frac{912}{9,120}$

Question 5

A. (VARIANCES – 4 marks, escalation claim – 2 marks, contract account – 2 marks)



Particulars	5	Particulars	5
To Materials (Actual Cost WN 1 Column 2)	1,05,25,000	By Contractee's A/c - Contract Completed	1,50,00,000
To Labour (Actual Cost WN 2 Column 2)	23,38,000	By Contractee's A/c – Escalation Claim	13,18,000
To Other Expenses (given)	13,45,000	(Refer WN 4 below)	
To Notional Profit – balancing figure	21,10,000		
Total	1,63,18,000	Total	1,63,18,000
To P & L A/c - Profit transfer - See Note b	21,10,000	By Notional Profit b/d	21,10,000
Total	21,10,000	Total	21,10,000

Note: It is assumed that Contract is 100% complete, and Cash is received (including Escalation Claim) at 100%.

4. Computation of Escalation Claim

Note: The following assumptions are made -

- Escalation Clause is applicable for the entire increase in cost, i.e. due to Quantity / Hours Variances, and also due to Price / Rate Variances.
- Escalation Claim is applied for every item of Materials and Labour on Total Cost independently, i.e. set-off of savings in one item with increase in another item is not permissible.

Item	Standard Cost	Actual Cost	Difference	Escalation Claim due to
Material A	3,000 tons × ₹ 1,000 = ₹ 30,00,000	3,400 tons × ₹ 1,100 = ₹ 37,40,000	₹ 7,40,000 Excessive Cost	Price: 3,400× (1,100-1,000)= ₹ 3,40,000 Qtty: 1,000× (3,000-3,400)=₹ 4,00,000
Material B	2,400 tons × ₹ 800 = ₹ 19,20,000	2,300 tons × ₹ 700 = ₹ 16,10,000	₹ 3,10,000 Cost Savings	The second se
Material C	500 tons × ₹ 4,000 = ₹ 20,00,000	600 tons × ₹ 3,900 = ₹ 23,40,000	₹ 3,40,000 Excessive Cost	Price: 600× (4,000-3,900)= (₹ 60,000) Qtty: 4,000× (500 - 600)=₹ 4,00,000
Material D	100 tons × ₹ 30,000 = ₹ 30,00,000	90 tons × ₹ 31,500 = ₹ 28,35,000	₹ 1,65,000 Cost Savings	₹ Ni
1 1 1 1 1	TATION CONT AL.		close-bright and	₹ 10,80,000
Labour L1	60,000 hrs× ₹ 15 = ₹ 9,00,000	56,000 hrs× ₹ 18 = ₹ 10,08,000	₹ 1,08,000 Excessive Cost	Rate: 56,000× (15 - 18)= ₹ 1,68,000 Hrs: 15×(60,000-56,000)= (₹ 60,000)
Labour L2	40,000 hrsx ₹ 30 = ₹ 12,00,000	38,000 hrs× ₹ 35 = ₹ 13,30,000	₹ 1,30,000 Excessive Cost	Rate: 38,000× (30 - 35)= ₹ 1,90,000 Hrs: 30×(40,000-38,000)= (₹ 60,000)
				₹ 2,38,000
	Total Escalation Claim	for Materials and Labour		₹ 13,18,000

Final Contract Price payable = Contract Price given ₹ 1,50,00,000 + Escalation Claim ₹ 13,18,000 = ₹ 1,63,18,000

Alternatively, Escalation Claim can be made only for Price increase after setting off Cost savings, wherever applicable.

Item	Standard Qty/ Hrs	Rate Change	Escalation Claim
Material A	3,000 tons	₹ 1,000 - ₹ 1,100 = ₹ 100 (excess)	+ ₹ 3,00,000 (increase)
Material B	2,400 tons	₹ 800 - ₹ 700 = ₹ 100 (saved)	- ₹ 2,40,000 (decrease)
Material C	500 tons	₹ 4,000 - ₹ 3,900 = ₹ 100 (saved)	- ₹ 50,000 (decrease)
Material D	100 tons	₹ 30,000 - ₹ 31,500 = ₹ 1,500 (excess)	+ ₹ 1,50,000 (increase)
010.82,65	3-000.08.01.5 - 0.0	Sub-Total	₹ 1,60,000 (increase)
Labour L1	60,000 hours	₹ 15 - ₹ 18 = 3	₹ 1,80,000
Labour L2	40,000 hours	₹ 30 - ₹ 35 = 5	₹ 2,00,000
		Sub-Total	₹ 3,80,000 (increase)
	and the second	Total Escalation Claim for Materials and Labour	₹ 5,40,000 (increase)

В.

(i) Name the method of costing and unit of costing (1 mark each)

Sr. no.	Industry	Method of costing	Cost unit
1	Sugar company having own sugarcane	Process	Per tonne or per
	fields		quintal
2	Engineering works	Contract	Per contract
3	Chemicals	Process	Per litre, per galloon,

			kilogram, tonne etc
4	Breweries	Process	Per barrel

(ii) (2 marks for each)

Particulars	Explicit costs	Implicit costs
Meaning	Costs which involve some cash	Cost which do not involve any cash
	payments or outflow of resources	payment at all
Also known as	Out of pocket costs	Economic/ notional/ imputed cost
Measurements	These are actually incurred and can	They are not incurred. They cannot
	be aeasily and objectively measured	be easily measured and involve
		subjective estimation
Recording in books of accounts	Recorded in books of accounts	Not recorded in books of accounts
Purposes	Accounting, reporting, cost control	Decision – making like asset
	and decision making	replacement, make or buy
Examples	Salaries, wages	Interest on own capital , rent of
		owm premises

Question 6

A. (3 Marks for each product)

Solution:	1. Basic Computations	CELLOS INCOME PROVIDENCE
Particulars	A	8
1. Sale Price p.u	₹ 20	₹ 20
2. Variable Cost p.u	₹12	₹14
3. Contribution p.u	₹8	35
4 Fived Costs p.a	₹ 30,00,000	₹ 21,00,000
5. BEO = $[4 \div 3]$	3,75,000 Units	3,50,000 Units
6 Anticipated Sales Quantity (given)	4,00,000 Units	4,00,000 Units
7 MOS Quantity (6-5)	25,000 Units	50,000 Units
8. Anticipated Profit (7×3)	₹ 2,00,000	₹ 3,00,000
Analysis & Conclusion:	and the second se	Country and Marine

1. Indifference Point = $\frac{\text{Change in Fixed Costs}}{\text{Change in Contribution pu}} = \frac{30,00,000-21,00,000}{8-6} = \frac{9,00,000}{2} = 4,50,000 \text{ units.}$

 Since Anticipated Sales (4,00,000 units) is below the Indifference Point (4,50,000 units), the option with the Lower Fixed Cost is preferable. Hence, Process B is preferable. (as reflected by higher anticipated profit)

3. No change in answer even if capacity of Process A increases, since Anticipated Sales is only 4,00,000 units.

[Note: However, if it assumed that Capacity as per Qn.2 represents Anticipated Sales, then, both Processes have anticipated Sales above the Indifference Point of 4,50,000 units. In case of output above the Indifference Point, the option with Higher PVR (lower VC pu) should be chosen. Hence, Process is preferable in this case.]

В.

	1. Job Evaluation (2.5 marks)	2. Merit Rating (2.5 marks)
Meaning	 It is a process by which the following aspects of a job are analysed & evaluated- a) Nature and importance of tasks to be performed. b) Skill Requirements of Job Holde3r like technical background, experience, etc. c) Importance of the job in relation to other jobs. 	Merit Rating is the systematic evaluation of the performance of each employee. Performance Evaluation, i.e. Merit Rating, may be done by the supervisor of other qualified person.

	a)	To assess the importance of each job.	a)	To identify efficient workers and
	b)	To determine the skill requirements of the job holder and fit the		reward them suitable.
es		right person in the right job.	b)	TO determine training and
ctiv	c)	To provide a basis for determining wage and salary structure for		development needs.
bje		various job positions in the firm.	c)	To provide a basis for promotion
0	d)	To provide a basis for superior-subordinate relationships, i.e.		and trnasfers to Assess the worh
		managerial hierarcy		of the worker to the Firm.

C.			
Pariculars		Bin Card (2.5 marks)	Stores Ledger (2.5 marks)
1.	Maintained by	Store-Keeper	Cost Accounting Department
2.	Nature	Stores Recording Document	Accounting Record
3.	Contents	Quantitative only	Quantitative cum Financial Reocrd
4.	Time of recording	At the time of transaction	After the transaction takes place
5.	Source Documents	Recorded at source. No separate source document required	Posted from Material Requisition slips, Goods received notes, etc.
6.	Manner of Posting	Each transaction is recorded separately	Transactions may be posted on summary basis
7.	Inter-Dept Tfrs	Inter-Deparment Transfers are not recorded in the Bin Card	Inter-Department Trnasfers are recorded in the stores Ledger, by direct adjustment in the respective Department WIP Control Accounts.

Question 7 (4 marks each for 75%, 100%)

Solution: Flexible Budg	get (amounts in	(Lakhs)	
Particulars	50%	75%	100%
A. Sales	NA	240.00	320.00
B. Variable Expenses: (proportionate from 50%)	- Furnishing		molicipal
Materials	48.00	72.00	96.00
Labour	51.20	76.80	102.40
Others	7.60	11.40	15.20
Sub-Total B.1	106.80	160.20	213.60
Semi Variable Expenses:		(50% level + 10%)	(50% level + 20%)
Maintenance and Repairs	5.00	5.50	6.00
Indirect Labour	19.80	21.78	23.76
Sales Department Salaries	5.80	6.38	6.96
Sundry Administrative Expenses	5.20	5.72	6.24
Sub-Total B.2	35.80	39.38	42.96
Fixed Expenses (same at all levels)	21 2 -0	V 1077	
Wages & Salaries	16.80	16.80	16.80
Rent Rates and Taxes	11.20	11.20	11.20
Depreciation	14.00	14.00	14.00
Sunday Administrative Expenses	17.80	17.80	17.80
Sub-Total B.3	59.80	59.80	59.80
B. Total Evnenses		259.38	316.36
C Profit / (Loss) (A - B)	1200	(19.38)	3.64

B (2 marks for each point)

SITUATION	ACCOUTING TREATMENT OF OVERTIME PREMIUM

1. Due to genuine labour shortage	Treated as regular cost of production, as directlbour, by inflating normal wage rate
2. At customers desire e.g. immediate delivery	Charged to the job directly. Such amount will be suitable recovered from the customers by charging at a higher rate
 Irregular overtime to meet production requirement due to unexpected development 	Charged to job – treated as factory overheads
 Due to fault of a particular department. E.g. non – availability of a ram material 	Charged to the department in fault, in order to fix responsibility and prevent recurrence
5. Due to abnormal conditions	Charged to costing profit and loss account