CMR INSTITUTE OF TECHNOLOGY

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			Int	ernal Assesme	nt Test -	I						
Sub:	Strategic Cost N	Managemen	nt					Code	e: 2	22MBA	FM30	5
Date:	17.01.2024	Duration:	90 mts.	Max Marks:	50	Sem:	III	Bran	ich:	MBA		
				SET- I								
											OBE	
									Mark	s CO	R	BT
									IVICII	.5	10.	
	Part A - Answ	er Any Tw	o Full Qu	estions (2* 20	= 40 ma	rks)						
1 (a)	Restate elements	of cost.							[03]	CO	1]	L2
	The elements of c product. We can manufacturing or the help of labo Expenses.	broadly div	vide these we conver	elements of co t raw materials	st into th into a fi	nree cate	egorie: produc	s. In a	l			
(b)	Describe how AI	BC Costing	is found to	o trace accuracy	in cost	allocatio	on?		[07	1 CO	1 1	L2
	Activity-based coindirect costs to costing recognize manufactured pretraditional costin and office staff seconds.	o related pes the related oducts, assuring methods. alaries, are	products a ationship igning ind However difficult to	between costs irect costs to p, some indirect assign to a pro	This acco s, overhed products I costs, su coduct.	ounting ead act less arb uch as r	meth ivities itrarily nanag	od of , and y than ement				
	Find out (i) Prime and sales:	e Cost (ii) V	Works Cos	t (iii) Cost of P	roduction	n (iv) To	otal co	ost	[10] CO	1 1	L2
		Dontinul-			Do							
		Particula		01 01 2010	Rs.							
				01.01.2016	6,720							
			purchased return to su	ınnliare	1,50,000 2000							
				appliers								
		Direct lab			50,000 20,000							
		·										
		Factory e		ion overheads	15,300							
		· · · · · · · · · · · · · · · · · · ·		······· !	8,000							
				n expenses	7,900							
		Profit	materials o	n 31/12/2016	7,720							
	Statement of Cost S	L			10,000							
ļ	Particulars	oneet	Amount		Amoun	t.						
	Stock of material		6720		/ Amoun	<u>-</u>						
	Material purchase	ed	150000		1							
	Total		156720									
	Less: material ret	urn	2000									

	Less Stock of 1	material	7720									
	Material consu	umed				147000)					
	Direct labour					50000						
•	Direct Expens	es	D :			20000						
	Fastawy arman	gog.	Prime cost			217000 15300)					
	Factory expen	ses	Works cost			232300	`					
	Office & Adm	in Overheads	WOLKS COST			8000	<u>'</u>					
	Office et Hum	in o verneus	Cost of Produc	ction		240300)					
	Selling &	Distribution				7900						
	overheads											
			Cost of Sales			248200)					
	Profit					10000						
			Sales			258200)					
2 (a)	Recall cost all	location and c	cost apportion	ment.						[03]	CO1	L2
	Key differenc	es between C	ost Allocation	n and C	ost Ap	portion	ment.	Purpos	e: Cost			
	Allocation is a	used to deterr	nine the cost of	of a spe	cific d	epartme	ent or	activity	, while			
	Cost Apportion	nment is use	d to distribute	the co	st of a	shared	resou	rce to m	nultiple			
	departments o								1			
	departments o	n activities.										
(1)	THE LANGE	0.E. 1.1.1			C					F071	001	Τ.Ο
	What is ABC	-	-							[07]	CO1	L2
	Activity Base											
	various activi											
;	and products	by assigning	a cost of acti	vities to	o prodi	ucts bas	sed or	an ind	ividual			
j	product.											
	According to	Dansby and	Lawrence 'I	n ABC	costs	are no	t init	ially tra	iced to			
	departments.	Instead, cost	s are first tra	aced to	activi	ities an	d the	n to pro	oducts:			
	Activities cau							_				
	later used as a	-										
	identifying a		_		-		take	nlace	in an			
	organisation.	Ct1 v 1t1C5 1.C.	identifying	major	acti v iti	.cs that	· take	prace	III uii			
	_	agets to get	ivity oost oon	tros i o	occio	nina oo	ata to	and n	001a or			
	(2) Assigning		-	iies i.e	. assig.	ining co	ists to	cost po	0018 01			
	cost centres fo		•	. 1	c · .1		.1	. · · · · ·	.1			
	(3) Selecting a			. identii	tying ti	ne facto	ors tha	t influei	nce the			
	costs of partic											
	(4) Assigning		-	oducts	i.e. ass	signing	such	cost acc	cording			
1	to each produ	cts demand fo	or activities.									
(c)	The following	g particulars re	elate to a man	ufactur	ing co	mpany	which	have th	ree	[10]	CO2	L5
1	production de	partments P1	, P2, P3 and t	wo serv	ice dep	partmen	ts S1	and S2.				
ĺ	Particulars				P1	P2	P3	S1	S2			
	Total departm	ental overhead	ls as per primai	ry	6300	7400	2800	4500	2000			
	distribution (i	n Rs.)										
Ì	The company	decided to ch	narge the serv	ice depa	artmen	t costs	on the	basis o	f			
	following per		Ç	1								
[Particulars	P1	P2	P3		S 1		S2				
ŀ	S1	40%	30%	20%		_		10%				
	S2	30%	30%	20%		20%		-				
					nto ob		orvios	donom	ments			
	Find the total								ments			
	cost to produc	-	ents by simult	aneous	equati	on and	repeat	ea				
	distribution m	etnods.										
	Solution:											
	X=4500+0.2											
	Y=2000+0.1X	K										
	10x-2y = 4500	00 & -x+10y	= 20000									
		_										

On solving: X=5000 & Y = 2500 Secondary Distribution Summary

Particulars	Total	Production Dep	partments	
		A	В	С
Total as per primary distribution	16400	6300	7400	2800
Department X 90%	4500	2000	1500	1000
Department Y 80%	2000	750	750	500
	23000	9050	9650	4300

Repeated Distribution:

Particulars	Production I	Departments		Service Departments		
	A	В	С	X	Y	
Total as	6300	7400	2800	4500	2000	
per						
primary						
distribution						
Dept X	1800	1350	900	-4500	450	
Dept Y	735	735	490	490	-2450	
Dept X	196	147	98	-490	49	
Dept Y	15	15	10	9	-49	
Dept X	4	3	2	-9	-	
	9050	9650	4300	0	0	

3 (a) Enumerate the reasons of under/over absorption of overhead.

Fluctuations in Activity Levels: Overhead absorption rates are typically based on estimated or budgeted activity levels. If the actual activity levels are lower than expected, it can result in under-absorption. Conversely, higher activity levels can lead to over-absorption. Variations in production volumes or machine usage affect the allocation of overhead costs.

- 2. Changes in Overhead Costs: Overhead absorption rates rely on historical or estimated costs. However, actual overhead costs can differ due to factors such as utility costs, rent, maintenance expenses, or labor rates. If the actual costs exceed the estimates, it causes under-absorption, while lower actual costs can lead to over-absorption.
- (b) A factory produces 100 units of a commodity. The cost of production is:

Direct materialRs.10000Direct wagesRs.5000Direct expensesRs.1000Factory overheadsRs.6500Administrative overheadsRs.3480

If a profit of 25% on sales is to be realized, what would be the selling price of each unit of the commodity? Prepare and show it as a cost sheet.

Solution:

Particulars	Amount (in Rs.)
Direct material	10000
Direct wages	5000

[03] CO2 L2

Direct Expenses	1000
Prime cost	16000
Add: Factory overheads	6500
Works cost	22500
Add: administrative overheads	2480
Cost of Production	25980
Profit $\frac{1}{4}$ on sale = $\frac{1}{3}$ on cost	8660
Sale price	34640

(c) A manufacturing company has two production departments A and B and three service departments Time keeping, Stores and Maintenance. The following are departmental expenses for a month:

[10]	CO2	L5
LTOI	002	

Particulars	Rs.
A	16000
В	10000
Service department:	
Time Keeping	4000
Stores	5000
Maintenance	3000

Other information is:

Particulars	Production I	Departments	Service Departments			
	A	В	Time	Stores	Maintenance	
			keeping			
No of	40	30	20	-	10	
employees						
No of stores	24	20	-	-	6	
requisitions						
Machine	2400	1600				
Hours						

Use 'Step Ladder method' in allocating departmental expenses.

D		I	I		1
Department	As per				
	primary				
	distribution				
	summary				
Time	4000	(-)4000			
keeping					
Stores	5000	800	(-)5800		
Maintenance	2000	400	696	(-)4096	
A	16000	1600	2784	2458	22842
В	10000	1200	2320	1638	15158
	38000				38000
Time	No of employ	vees: 4:2:8:6			
Keeping					
Stores	No of requisit	tions: 12:10:3			
Maintenance	Machine Hou	rs 3:2			

Part B - Compulsory (01*10=10 marks) – CASE STUDY

A company has 3 production departments A, B and C and 2 service departments X and 4 Y. The following data are extracted from the records of the company for a particular given period: Rent and Rates = ₹ 25,000; Power = 7,500; General lighting = ₹ 3,000; Depreciation on machinery = ₹ 50,000; Indirect wages = ₹ 7,500; Sundries = ₹ 50,000 Particulars Total (₹) Departments A B 50,000 15,000 7,500 Direct wages 10,000 15,000 2,500 HP of machine used 150 60 30 50 5,00,000 1,25,000 3,00,000 4,00,000 25,000 25,000 Cost of machinery 4066 4028 6226 Production hour worked 2,500 3,000 2,000 2,000 Floor space (sq. mts) 10,000 5 10 15 20 Lighting point 60 10 Service department expenses C Y B Department 40% 10% 20% 30% 20% 30% 10% 40% You are required to, i) Compute the overhead rate of production department using repeated distribution CO₁

Method. [5]

(ii) Hence, determine the total cost of a product whose direct materials cost and direct labour cost are respectively Rs.250 and Rs.150 and which would consume 4 hours, 5 hours and 3 hours in department A,B and C respectively. [5]

L5 CO₁ L2

Solution:

Overhead Distribution summary

Particulars	Basis	Total	Production	Departments		Service Depa	artments
			A	В	С	X	Y
Direct wages	Actual	10000				7500	2500
Rent & Rates	Area	25000	5000	6250	7500	5000	1250
G lighting	L points	3000	500	750	1000	500	250
Indirect	D Wages	7500	2250	1500	2250	1125	375
wages							
Power	HP	7500	3000	1500	2500	500	-
Depreciation	Value	50000	12000	16000	20000	1000	1000
Sundries	D Wages	50000	15000	10000	15000	7500	2500
Total		153000	37750	36000	48250	23125	7875
Redistribution			4625	6937.50	9250	(23125)	2312.50
of S1							
Redistribution			4075	2037.50	3056	1018.75	10187.50
of S2							
Redistribution			203.75	306	407	(1018.75)	101.875
of S1							
Redistribution			40.75	20.375	31	10	(101.875)
of S2							
Redistribution			2	3	4	(10)	1
of S1							
	Total		466965	45304	60998		
Production			6226	4028	4066		
hours							
Working rate			7.50	11.25	15		
per hour							

(b) cost of a product

Direct material cost 250.00 Direct labour cost 150.00

Overhead cost:

A: 4 hours * 7.50 30.00 B: 5 hours * 11.25 56.25 C: 3 hours * 15 45.00 Total cost of the product 531.25

Course Outcomes		P01	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1	Understand the goals and strategies of business units.	1a 2a 2b		1c 3b 4a 4b	1b		1a 2a 2b 1c 3b 4a 4b 1b			
CO2	Determine standard costing and variance analysis cost control in Business decision making,	3a		2c	3c			3a 2c 3c		
CO3	Applications of Management accounting and control systems in Corporate.									
CO4	Critically evaluate all traditional and non-traditional costing methods such as absorption costing; marginal costing and activity-based costing.									

Cognitive level	KEYWORDS			
L1 -	list, define, tell, describe, recite, recall, identify, show, label, tabulate, quote, name, who, when, where, etc.			
Remember	ist, define, ten, describe, recair, identity, snow, laber, tabulate, quote, name, who, when, where, etc.			
L2 -	describe, explain, paraphrase, restate, associate, contrast, summarize, differentiate interpret, discuss			
Understand	desertoe, expiani, paraphrase, restate, associate, contrast, summarize, differentiate interpret, discuss			
L3 - Apply	calculate, predict, apply, solve, illustrate, use, demonstrate, determine, model, experiment, show, examine, modify			
L4 - Analyze	classify, outline, break down, categorize, analyze, diagram, illustrate, infer, select			
L5 - Evaluate	asses, decide, choose, rank, grade, test, measure, defend, recommend, convince, select, judge, support, conclude, argue, justify, compare, summarize, evaluate			
L6 - Create	design, formulate, build, invent, create, compose, generate, derive, modify, develop, integrate			

PO1-Theoretical Knowledge; PO2-Foster Analytical and Critical Thinking Abilities for data based decision making; PO3-Develop Value Based Leadership; PO4-Ability to Understand and communicate various business aspects to global;

PO5 – Ability to lead themselves and others in the achievement of organizational goals contributing effectively to a team environment:

PSO1- Comprehend Contemporary features of Business Management Science and its administration

PSO2- Analyze and interpret the dynamic situations for making Business Management strategies

PSO3- Handle responsibility with the ethical values for all actions undertaken by them

PSO4- Adapt and focus on achieving the organizational goal and objectives with complete zeal and commitment.

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