		FUNI	DAMENTALS OF COST AND MANAGEMENT ACCOUTING - STAGE-2	Marks
Q.2	(a)	(i) <i>i</i>	As a factor in pricing decisions, production planning and cost control.	1
		(ii) (Organizational planning, cost control.	1
		(iii) l	Production planning, decisions on alternative methods, wages cost control.	1
		(iv) I	Material cost control, production planning.	1
		(v) I	Profit planning, make or buy decisions, cost control.	1
	(b)	` '	Cost that can be identified in a specific product or saleable service is direct cost. Indirect costs are those costs which cannot be charged directly to a product e.g. building	
		i	insurance & taxes.	02
		` '	Total cost of a product built-up from its cost elements i.e., material, labour and overhead is called product cost. The cost which occurs or accrues in relation to passage of time is	
		t	termed as period cost.	02
		; (The controllable cost is a cost that can be influenced and regulated during a given time span by the action of the individual who has control of a particular cost centre. Uncontrollable cost is the cost which can not be controlled by a departmental manager. These cost can, however, be controlled at some appropriate management level and in	
		t	the long run.	02

Q. 3 (a)

Rahman Manufacturing Company Statement of Cost of Goods Manufactured and Cost Of Goods Sold For the month ended April 2011

	Rs.	
Manufacturing Costs:		
Raw Material - Beginning	17,400	
Purchases	120,000	
Raw Material Available	137,400	
Raw Material – Ending	(13,200)	
Raw Material Used	124,200	2
Direct Labour (21,000 x 13)	273,000	
Overhead:		
DeprFactory Equipment	17,300	
Repairs/Maintenance-Factory	7,400	
Indirect Labor	11,200	
Insurance-Factory	1,770	
Factory Supplies Used	350_	
Total Overhead	38,020_	2
Total Manufacturing Costs	435,220	1
Cost of Goods Manufactured:		
Total Manufacturing Costs	435,220	
Work in Process Beginning	31,150	
Work in Process Ending	(28,975)	
Cost of Goods Manufactured	437,395	1
Cost of Goods Sold:		
Finished Goods – Beginning	19,200	
Cost of Goods Manufactured	437,395	
Total Goods Available	456,595	
Finished Goods – Ending	_(25,500)_	
Cost of Goods Sold	431,095	1
		PTO

DISCLAIMER

(b)		Mater	ials			
~,	Beginning Inventory	6,440	Work-in-process	3,680		1+1
	Purchases	4,800	Work-in-process	3,720		1+1
	Purchases	6,000	Work-in-process	3,840		1+1
		17,240	·	11,240		
	Balance	6,000				1
		Work-in-p	rocess			
	Material	3,680	Finished goods	20,400		
	Material	3,720				
	Material	3,840				
	Labour	4,800				
	Factory overhead	4,360				
		20,400		20,400		
		1		+1	=	2
		Finished	Goods			
	Work-in-process	20,400	Cost of goods sold	18,000		01
	Balance	2,400				
		Cost of Go	ods Sold			
		18,000	\$ 7	-		01

Q. 4 (a)

Ehsan Company
Labour Performance Report and Efficiency Variances
For September,

	Productive	Setup	Cleanup	Down	Total	
	labour time	Time	Time	Time	TOtal	
Actual hours	8,000	200	110	350	8,660	
Standard hours **	7,700	231	77	308	8,316	2
Standard hourly rate Rs.	8	8	8	8	8	
Actual cost Rs.	63,900	1,554	662	2,776	68,892	
Standard cost Rs.	61,600	1,848	616	2,464	66,528	2
Total variance Rs.	2,300 U	294 F	46 U	312 U	2,364 U	2
Labour efficiency variance* Rs.	2,400 U	248 F	264 U	336 U	2,752 U	4

F = Favourable variance

U = Unfavorable variance

* Actual hours x standard labour rate	64,000
Standard hours x standard labour rate	61,600
Labour efficiency variance	2,400 U

OR

8,000 Actual hours 7,700 Standard hours

300 Excess hours x Rs. 8 standard labour rate = Rs.2,400 unfavorable labour efficiency variance.

^{** 7,700} standard productive hours x 3% = 231

FUNDAMENTALS OF COST AND MANAGEMENT ACCOUTING - STAGE-2

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Q. 4 (b)

(i)

Factory Overhead Distribution Sheet

and Computation of

Rs.

		Producing D	epartments		Servi	ce Departme	nts	
	01	02	03	04	Maintenance	Toolroom	Storeroom	
Total	60,000	70,000	65,000	50,000	25,800	21,000	15,000	
Distribution of service department								
Fixed overhead:								
Maintenance	5,000	4,000	3,000	3,000	(15,000)			
Toolroom	3,500	2,500	2,500	2,000		(10,500)		
Storeroom	6,000	3,000	2,000	1,000))	(12,000)	
					10,800	10,500	3,000	
Variable overhead:								
Maintenance	3,600	3,000	2,700	1,500	(10,800)			
Toolroom	3,500	2,800	2,100	2,100	-0-	(10,500)		
Storeroom	900	900	840	360		-0-	(3,000)	
Total	82,500	86,200	78,140	59,960			-0-	
	=		# <					
Bases	33,000 Machine hours	32,000 machine hours	39,070 Direct labour hours	59,960 Direct labour hours				
(ii) Factory overhead rates	= Rs.2.50 per Machine hours	= Rs.2.70 per Machine hours	Rs.2.00 per direct labour hours	= 100% of direct labour hours				
	/	\longrightarrow			Coloulation of I	Nictribution D	otos	

Calculation of Distribution Rates

<u>Rs.10,800</u> 36,000 sq. ft	<u>Rs.10,500</u> 150	<u>Rs.3,000</u> 100,000
	employees	requisitions
= Rs 0.30 per	= Rs. 70	= Rs. 0.03
sq. ft	per	per
	employee	requisition

Q. 5 (a)

Star Company Blending Department For the month of April

(i) Quantity Schedule

Units in Process at beginning(all material,50% to conversion cost)

Units started in process

2,000

2,000

22,000

Units transferred to next department

Units completed and on hand

Units in process at end (all material,2/3 of conversion cost)

Units lost in process

1,000

22,000

(ii) Equivalent Production Units Schedule

Units completed and transferred Units completed and on hand Units still in process (all material,2/3 Conversion Cost) Total Equivalent Units

Material	Conversion
19,000	19,000
500	500
1,500	1,000
21,000	20,500
1	+ 2 =

PTO

3

1

FUNDAMENTALS OF COST AND MANAGEMENT ACCOUTING - STAGE-2

(iii) Cost charged to the Department: **Total Cost** Unit Cost Cost added by department: Work-in-process - beginning inventory: 1 1,000 Materials 620 Labour Factory overhead 600 Cost added during period: 2 Materials 9,920 0.52 Labour 12,090 0.62 Factory overhead 11,290 0.58 1 1.72 Total cost (charged) to be accounted for 35,520 (iv) Cost Accounted for as follows: Transferred to next department (19,000 x Rs.1.72) 32,680 1 Work-in-process – ending inventory: Completed and on hand (500 x 1.72) 860 Materials (1,500 x Rs.0.52) 780 Labour (1,500 x 2/3 x Rs.0.62) 620 Factory overhead (1,500 x 2/3 x Rs.0.58) 580 2,840 2 Total cost accounted for 35,520 **Additional Computations:** Equivalent production: Materials = 19,000 + 500 + 1,500 = 21,000 units Labour and factory overhead = 19,000 + 500 + (2/3 x 1,500) = 20.500Unit costs: 10,920 Materials $\approx Rs.1,000 + Rs.9,920 =$ 0.52 per unit 21,000 12,710 Labour = Rs.620 + Rs.12,090 =0.62 per unit 20,500 11,890 Factory overhead = Rs.600 + Rs.11,290 = 0.58 per unit 20.500 (b) Kg Unit cost Rs. Amount Rs. Materials cost variances: Actual quantity used 14.400 51 actual 734,400 Actual quantity used 14,400 50 standard 720,000 Materials price usage variance 14,400 01 14,400 unfav. 2 720,000 Actual quantity used 14,400 50 standard Standard quantity allowed 14,000 50 standard 700,000 Materials quantity variance 400 50 standard 20,000 unfav. 2 Labour cost variance: Time Rate Rs. Amount Rs. Actual hours worked 9,000 8.50 actual 76,500 Actual hours worked 9,000 9.00 standard 81,000 2 Labour rate variance 9,000 (0.50)(4,500) fav. Actual hours worked 9.000 9.00 standard 81.000 Standard hours allowed 8,750 9.00 standard 78,750

DISCLAIMER

Labour efficiency variance

9.00 standard

2,250 unfav.

2

250

	FUN	DAMENTALS OF COST AND MANAGEMENT ACCOU	ITING – STAGE-2	Marks
	Fac	tory overhead variances two variance method:		
		Actual factory overhead Budget allowance based on standard hours allowed: Fixed expense budgeted Variable expense (8,750 standard hours	17,550 5,000	
			13,125 18,125 575 fav.	2
		Budget allowance based on standard hours allowed Overhead charged to production (8,750 standard	18,125	
		hours allowed x Rs.2.00) Volume variance	17,500 625 unfav.	2
Q. 6 (a)	(i)	Manufacturing cost per unit (absorption costing): Direct materials and labour Factory overhead:	28.0	
		Variable expense (Rs.1 per hour x 5 hours) 5.0	
		Fixed expense (Rs.1.50 x 5 hours)	<u>7.5</u> <u>12.5</u>	1
		Total manufacturing cost per unit	40.5	
		Annual total fixed cost Normal activity hours annually = $\frac{60000}{40000}$ =	1.5 Fixed rate per direct labour hour	
		Manufacturing cost per unit (direct costing):		
		Direct materials and labour Factory overhead:	28.0	
		Variable expense (Rs.1 per hour x 5 hours Total manufacturing cost per unit	5.0	1
	(ii)	Kaleem Corporation		

Kaleem Corporation
Comparative Gross Profit Statements - Absorption Costing
Based on data for four years

	Year-1	Year-2	Year-3	Year-4	Total
Sales	315,000	270,000	315,000	405,000	
Direct materials and labour	224,000	280,000	196,000	112,000	
Variable factory overhead	40,000	50,000	35,000	20,000	
Fixed factory overhead	60,000	75,000	52,500	30,000	
Cost of goods manufactured	324,000	405,000	283,500	162,000	
Beginning inventory	-	40,500	202,500	202,500	
Cost of goods available	324,000	445,500	486,000	364,500	
Ending inventory	40,500	202,500	202,500	-	
Cost of goods sold	283,500	243,000	283,500	364,500	
Over or underapplied factory overehad	-	(15,000)	7,500	30,000	
Cost of goods sold at actual	283,500	228,000	291,000	394,500	
Gross profit	31,500	42,000	24,000	10,500	108,000
	2	+2	+2	+2	=

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FUI	DAMENTALS OF COST AND MANAGEME	NT ACCOUTING – STAGE-2	Ma
(b) (i	Sales	10,000,000	
	Variable cost	2,500,000	
	Contribution margin	7,500,000	
	Fixed cost	5,000,000	
	Operating income	2,500,000	
(ii	Break-even point in Rupees 5,000,000 1 - 2,500,000 10,000,000		
(iii	Break-even point in units 6,666,667	= 66,667 units	
(iv	Margin of safety ratio at the given sales level	10,000,000 - 6,666,667 3,333,333	
		10,000,000 = 10,000,000	
		= 0.333 or 33.3%	
	THE EN		