### FUNDAMENTALS OF COST AND MANAGEMENT ACCOUNTING - STAGE-2

_			0171011					
Q. 2	(a)	A service department is one that is not directly engaged in production particular type of service for the benefit of other departments. Exadepartments are receiving, storerooms, maintenance, timekeeping cafeteria.	mples of service	Marks 1				
		Service departments generally have the following characteristics:						
		☐ It is difficult to establish a meaningful measure of their production	and productivity.	1				
	The functional relationship between a service department's costs company's output is very flexible. In many instances a considerable between services and production.							
		Service departments cannot be changed too rapidly without indirect consequences to the operational divisions.	possible serious	1				
	(b)		Rs.					
	` ,	(i) Cost of raw materials used in production	1,250					
		Less: Decrease in the raw materials inventory during the year (Rs. 130 - Rs. 80 = Rs. 50)	50	1				
		Cost of raw materials purchased during the year	1,200	1				
		(ii) Total manufacturing costs Less: Direct materials used in production	6,050 1,250					
		Manufacturing overhead applied	<u>2,800</u> 4,050					
		Direct labor cost incurred	2,000	1				
		Predetermined overhead rate						
		= Manufacturing overhead cost ÷ Direct labor cost = Rs. 2,800 ÷ Rs. 2,000 = <b>140% of direct labor cost</b>		1				
		(iii) Total manufacturing costs	6,050					
		Add: Work in process inventory – beginning	250					
		Mode in manage inventory and in a	6,300	1				
		Less: Work in process inventory – ending Cost of goods manufactured	<u>400</u> <b>5,900</b>	1				
		Cost of goods mandiactured	3,300	'				
		(iv) Finished goods inventory – beginning	300					
		Add: Cost of goods manufactured Cost of goods available for sale	5,900 6,200	1				
		Less: Finished goods inventory – ending	200	ı				

**Marks** 

### FUNDAMENTALS OF COST AND MANAGEMENT ACCOUNTING - STAGE-2

Q. 3 (a) (i)

(ii)

## Waqas Corporation Comparative Income Statement For month Ending June 30, 2011

		Rs. (million)
	FIFO	LIFO
Sales (16,000 units @ Rs. 7,000)	112.00	112.00
Beginning inventory	6.00	6.00
Purchases	62.90	62.90
Available for sale	68.90	68.90
Ending inventory	17.40	15.80
Cost of goods sold	51.50	53.10
Gross profit	60.50	58.90
Marketing and administrative expenses	21.00	21.00
Income before income tax	39.50	37.90
Income tax (35%)	13.83	13.27
Net income	25.67	24.63

FIFO			LIFO		
Units	Rs./ Unit	Rs. (m)	Units	Rs./ Unit	Rs. (m)
4,000	3,500	14.00	2,000	3,000	6.00
1,000	3,400	3.40	2,000	3,200	6.40
5,000		17.40	1,000	3,400	3.40
	<b>/</b>		5,000		15.80
		2	<u> </u>		+3

## Cash position at end of the June

		Rs. (m)
	FIFO	LIFO
Sales (receipts)	112.00	112.00
Purchases	62.90	62.90
Marketing and administrative expenses	21.00	21.00
Income tax (35%)	13.83	13.27
Total disbursements	97.73	97.17
Cash balance	14.27	14.83
	1	+1

2

<u>Marks</u>

1

# FUNDAMENTALS OF COST AND MANAGEMENT ACCOUNTING - STAGE-2

Q. 3 (b)	(i	) Employee <sup>⊾</sup> s	Earnings:
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		_				Rs.	
			Saturday	Sunday	Monday		
	Hours	x hourly rate	600.00	600.00	600.00		
	Units a	above standard	-0-	10.00	15.00		
	Hours	saved		0.50	0.75		
	Value	of time saved		37.50	56.25		
	80% o	of value of time saved		30.00	45.00		
(A)	Earnin	ıgs	600.00	630.00	645.00	1,875.00	•
(B)		: 110% x Rs. 75 hour rate = 880 ÷ 800 x 1		ours =		Rs. 3,300	
(C)	Earnings	= (Rs. 75 hourly r = Rs. 78.75 x 24		increase) x	24 hours	Rs. 1,890	
(ii)	Per unit la	bour cost:					_
(A)	= 1,875 ÷ 5	505 =			Rs. 3.	71 per unit	
	•	s 160 + 170 +175 =	505)				
(B)	= Earning F	Rs.3,300 ÷ No. of unit	ts 880 =		Rs. 3.	<b>75</b> per unit	
(C)	= Earning F	Rs.1,890 ÷ No. of unit	ts 503 =		Rs. 3.	<b>76</b> per unit	
	Let:	SR-1 = Rs	s. 20 m + 0.20	SR-2			
		(/					

Q. 4	(a)	Let:	SR-1	<b>=</b> /	Rs. 20 m + 0.20 SR-2	1
			SR-2	=	Rs. 17.6 m + 0.10 SR-1	1
		Substituting:	SR-1	=	Rs.20 m + 0.20 (Rs. 17.6 m + 0.10 SR-1)	1
		Solving:	SR-1	=	Rs.20 m + Rs. 3.52 m + 0.02 SR-1	
		0.98	3 SR-1	=	Rs. 23.52 m	
			SR-1	=	Rs. 24 million	1
		Substituting:	SR-2	=	Rs. 17.6 m + 0.10 (Rs. 24 m)	1
				=	Rs. 17.6 m + Rs.2.4 m	
				=	Rs. 20 million	1
		Total PDN-1 o	verhea	<b>d</b> =	Rs. 84 m + 0.40 (SR-1) + 0.50 (SR-2)	1
				=	Rs. 84 m + 0.40 (Rs. 24 m) + 0.50 (Rs. 20 m)	1
				=	Rs. 84 m + Rs. 9.6 m + Rs. 10 m	

Rs. 103.6 million

=

<u>Marks</u>

### FUNDAMENTALS OF COST AND MANAGEMENT ACCOUNTING - STAGE-2

### Q. 4 (b) Journal entries:

					Rs.	
(a)	Materials Accounts payable			80,000		
					80,000	
<i>(b)</i>	Work in process			130,000		
	Factory overhead conf	irol		7,000		
	Materials				137,000	
(c)	Accounts payable			1,800		
	Materials				1,800	
(d)	Payroll			179,000		
	Accrued payroll			,,,,,,,,,,	179,000	
	Work in process		_ ( <u>  \</u>	160,000		
	Factory overhead conf	trol		19,000		
	Payroll				179,000	
(e)	Accrued payroll			150,000		
<b>.</b> - /	Cash			100,000	150,000	
(0		trol -	<b>**</b>	04.55=		
<i>(f)</i>	Factory overhead conf Cash (or accounts p			84,000		
		<u> </u>			84,000	
(g)	Marketing and adminis	· / · / ·	enses control	17,000		
	Cash (or accounts p	ayable)			17,000	
(h)	Cash			600,000		
	Accounts receivable	)			600,000	
(í)	Accounts payable			270,000		
	Cash			270,000	270,000	
(1)	Eastery everboad cont	trol	·	4.054		
(j)	Factory overhead cont Accumulated depred		dina	4,354		
	Accumulated depred		•		400	
	7 todamalated depret	JIGHOTT OQU			3,954	
(k)	Work in process			96,000		
	Factory overhead co	ontrol			96,000	
(V)	Finished goods *			406,800		
	Work in process			,	406,800	
(m)	Cost of goods sold		,	410.000		
(WU)	Finished goods			410,000	410,000	
	<u> </u>				<del></del> -	
(n)	Accounts receivable			570,000		
	Sales				570,000	
		Work-in-	process		Rs.	
	Balance	170,800	Finished goods	(V) 4	06,800 *	
	Material	130,000	Inventory		50,000	
	Labour	160,000				
	Factory overhead	96,000				

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### FUNDAMENTALS OF COST AND MANAGEMENT ACCOUNTING - STAGE-2

-				<u> </u>	Marks
Q. 5	(a)	(i)	Materials price variance = (AQ × AP) – (AQ × SP) = Rs. 70,520 – (4,100 × Rs. 16.50) =	Rs. 2,870 U	1 1
		(ii)	Materials quantity variance = $SP(AQ - SQ)$ = Rs. 16.50 (3,500 $-$ 3,510 *) =	Rs. 165 F	1 1
			* SQ = Standard quantity per unit × Actual output = 2.7 × 1,300 = 3,510		1
	(b)	(i)	Labor rate variance = (AH × AR) – (AH × SR) = Rs. 11,385 – (1,100 × Rs. 10.50) =	Rs. 165 F	1 1
		(ii)	Labor efficiency variance = SR(AH – SH) = Rs. 10.50 (1,100 – 1,320 *) =	Rs. 2,310 F	1 1
			* SH = Standard hours per unit × Actual output = 3.3 × 400 = 1,320		1
		(iii)	Journal entries to record the direct labor costs:		
			Work In Process 13,860 Labor Rate Variance Labor Efficiency Variance Wages Payable (or Cash)	165 2,310 11,385	2
Q. 6	(a)	(i)	Variable overhead spending variance = (AH × AR) – (A = Rs. 44,980 – (5,200 × Rs. 7.70) =	H × SR) <b>Rs. 4,940 U</b>	1 2
		(ii)	Variable overhead efficiency variance = SR(AH – SH) = Rs. 7.70(5,200 – 5,400 *) =	Rs. 1,540 F	1 2
			* SH = Standard hours per unit × Actual output = 2.5 × 2,160 = 5,400		1
	(b)				
			Income statement marginal costing	Rs. 3000	
			Sales Less variable expenses: Variable cost of goods sold:	1,430	1
			Beginning inventory Add variable manufacturing costs Goods available for sale	0 1,032 1,032	1
			Less ending inventory	172	4
			Variable cost of goods sold Variable selling and administrative	860 70	1
			Variable cost of sales	930	1
			Contribution margin Less fixed expenses:	500	1
			Fixed manufacturing overhead	384	
			Fixed selling and administrative  Net operating income	40 424 76	1

### THE END

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