INSTITUTE OF COST AND MANAGEMENT ACCOUNTANTS OF PAKISTAN



Spring (August) 2012 Examinations

Tuesday, the 28th August 2012

COST AND MANAGEMENT ACCOUNTING-PERFORMANCE APPRAISAL - (S-303)

STAGE-3

CMA/ CAM STDEAM

		CM	A/ CAIN SI REAIN		
Extra Writin	Reading Time: g Time:	15 Minutes 02 Hours 45 Minutes	Maximum Marks: 9	0 Roll No.	:
(i)	Attempt all ques	stions.			
(ii)	Answers must b	be neat, relevant and brief.			
(iii)	In marking the effective presen	question paper, the exam tation, language and use of	iners take into account clear diagram/ chart, wh	clarity of exposition ere appropriate.	n, logic of arguments,
(iv)	Read the instrue	ctions printed inside the top	cover of answer script C	AREFULLY before a	attempting the paper.
(v)	Use of non-prog	grammable scientific calcula	tors of any model is allow	ved.	
(vi)	DO NOT write y	our Name, Reg. No. or Roll	No. anywhere inside the	answer script.	
(vii)	Question No.1 -	 "Multiple Choice Question" 	" printed separately, is ar	integral part of this	question paper.
(viii)	Question Pape	er must be returned to invi	gilator before leaving th	ne examination hall	I.
Answe	r Script will be p	rovided after lapse of 15 mi	nutes Extra Reading Tin	1e (9:30 a.m. or 2:30 p.m.	. [PST] as the case may be).
Q. 2	M/s XYZ Com are introduced make finished	pany produces Product- in Department-1. The m Product-A. All inventories	A through a series of naterials pass through s are valued by first-in,	four departments remaining three d first-out (FIFO) me	Marks All materials epartments to ethod.
	Following data	is available relating to D	epartment-4:		
		C C	•		Rs. '000'
	Inventories	on July 1, 2012:			
	Work-in-pro	ocess Department-4 (1,00	00 units, 25% complete	ed)	178
	Finished G	oods (1,800 units @ Rs.	235 per unit)		423
	Costs charged to work-in-process Department-4 during July, 2012:				
	 Direct ma 	aterials transferred from p	previous Deptt.(4,700 ι	inits @ Rs. 160 pe	r unit) 752
	 Direct La 	bour			255
	 Factory d 	overhead			153
	During the Inventories	month, 5,000 units of Pro	oduct-A were complete s follows:	ed and 4,800 units	were sold.
	Wo	rk-in-process Department	t-4 (50% completed)	700 units	
	Fini	shed Goods		2,000 units	
Requ	ired:				
-	Calculate the f	ollowing for the month of	July and at the end of	July 2012:	
		J	,	, -	

(1)	Equivalent units of production for Department-4.	02
(ii)	Unit conversion cost for Department-4.	01
(iii)	Total and unit cost of Product-A started in a prior period and finished.	02
(iv)	Total and unit cost of Product-A started and finished.	04
(v)	Total cost of goods transferred to finished goods.	03
(vi)	Work-in-process inventory for Department-4.	03
(vii)	Cost of goods sold (indicate number of units and unit costs).	02
(viii)	Finished goods inventory for Department-4.	01

05

05

02

Q. 3 A company produces wide range of products. One of its products "Z" passes through three different processes. The throughput per hour of the process 1, 2 and 3 is 24, 20 and 30 units respectively. The company works for 8 hours daily, 6 days per week and 48 weeks in a year. The selling price of product "Z" is Rs. 300 per unit and its material cost is Rs. 60 per unit. Weekly conversion costs are estimated to be Rs. 48,000.

Required:

Calculate the following:

- (i) Throughput Accounting (TA) Ratio per day.
- (ii) How much the company could spend on equipment to improve the throughput of process 2, if it wished to recover its costs in two different time periods of 2 years and 12 weeks respectively?
- (iii) Revised TA Ratio, if money is spent as worked out in (ii) above.
- Q. 4 A manufacturing company produces a standard product and operates a system of variance accounting using a fixed budget. The relevant data for the month ended July 31, 2012 is as follows:

Budgeted and standard cost data:

Budgeted sales and production for the month: 10,000 units

Standard unit cost of product:

Direct material:	А	10 kgs	@ Rs. 20 per kg		
	В	5 kgs	@ Rs. 100 per kg		
Direct labour		5 hours	a @ Rs. 60 per hour		
Fixed production overhead is absorbed at 200% of direct labour.					

Budgeted sales price has been calculated to give a profit of 20% of sales price.

Actual data for the month:

Production: 9,500 units sold at price of 10% higher than the budget price.

Direct material consumed:	А	96,000 kgs	@ Rs. 24 per kg
	В	48,000 kgs	@ Rs. 94 per kg
Direct labour		46,000 hours	s @ Rs.64 per hour
Fixed production overhead in		Rs.5.8 million	

Required:

(a) Workout the following for the month:

	(i) Standard product cost.	03
	(ii) Selling price per unit.	02
	(iii) Actual profit.	04
	(iv) Budgeted profit.	01
(b)	Calculate the following:	
	(i) Material price, usage and mix variances.	03
	(ii) Direct labour rate and efficiency variances.	02
	(iii) Fixed overhead expenditure variance.	01
	(iv) Volume efficiency and capacity variances.	02
	(v) Sales margin price variance and volume variance.	02
	(vi) Total variances.	01
(c)	Reconcile budgeted profit with actual profit for the month of July 2012.	03

- Q.5 A manufacturing company produces and sells a product having seasonal variations in demand. Following is the information for all the four quarters of current year and first two quarters of next year:
 - The selling price of the product is Rs. 80 per unit. Budgeted sales units are as follows: (i)

Year	Current Year			Next Year		
Quarters	1	2	3	4	1	2
Budgeted sales units	40,000	60,000	100,000	50,000	70,000	80,000

(ii) Sales are collected in the following pattern:

75% in the quarter of sales and balance 25% in the following quarter. Accounts receivable showed a balance of Rs. 650,000 at the end of previous year, all of which will be collected in first quarter of current year.

- (iii) The company desires an ending inventory of finished units on hand at the end of each quarter equal to 30% of the budgeted sales for the next quarter. The company had 12,000 finished units at the end of previous year.
- (iv) 5 kgs of raw materials are required to complete one unit of the product. The company requires an ending inventory of raw materials, at the end of each quarter, to 10% of the production needs of the following quarter. The company had 23,000 kgs of raw materials at the end of previous year.
- (v) The average cost of raw material is Rs. 8 per kg. Purchase of raw materials is paid for 60% in the guarter of the purchases and balance in the following guarter. Accounts payable showed a balance of Rs. 815,000 at the end of previous year, all of which will be paid in first quarter of current year.

Required:

Prepare the following budgets and schedules for current year, showing guarterly and annual (total) figures:

(i)	Sales budget and a schedule of expected cash collection.	08
(ii)	Production budget.	06

- (ii) Production budget.
- (iii) Raw materials purchases budget and a schedule of expected cash payments for raw materials. 10
- Q. 6 (a) What are four different types of responsibility centres? Define them briefly.
 - (b) Following is the data for an investment centre of Division-A of M/s. XYZ Services Company:

Average operating assets		Rs. 1,000,000		
Net operating income	Rs.	200,000		
Minimum required rate of return		15%		

The company is considering to purchase a computerized machine to enhance the service facilities. The machine would cost Rs. 250,000 and expected to generate additional operating income of Rs. 45,000 annually

Required:

Calculate the residual income of the company before and after purchase consideration. 06

THE END

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