INTERMEDIATE EXAMINATION

June 2013

I–P8(CMA) Syllabus 2008

Cost and Management Accounting

Time Allowed: 3 Hours

1.

Full Marks: 100

 ${\it The figures in the margin on the right side indicate full marks.}$

Question No. 1 is compulsory. Answer any five from the rest.

(a)	Match	the statement in Column I with the ap	propi	riate statement in Column II:	1×5=5
		Column I		Column II	
	(i)	Apportionment of Overheads	(A)	Job Evaluation	
	(ii)	Equivalent Production		Reciprocal Method	
	(iii)	Point Ranking Method		Cost Ledger Accounts	
		Output Costing		Process Costing	
	(v)	Non Integrated Accounts	(E)	Coal Industry	
(b)	State	whether the following statements are '	True'	or 'False':	$1\times5=5$
				ective of the number of units of output.	2000
				s under Rowan Plan than under 50% Halsey	Plan.
	(iii) A bin card shows the quantity and value of a stores item.(iv) Cost Ledger Control Account is maintained in the costing books while General Ledger Adjust				
	(iv)	Cost Ledger Control Account is mai	ntaine	ed in the costing books while General Led	ger Adjustment
	()	Account is maintained in the financia			on of old stocks
	(V)	and consequent spoilage and obsolesce		ompany has to suffer loss due to accumulation	of old stocks
(c)		the blanks suitably:			$1\times5=5$
	(i)	centre is defined as a busi	iness e	entity's segment by which both revenues are e	earned and costs
		are incurred.			
	(ii)			aximum usage multiplied by maximum lead	time.
	(iii)	The most appropriate cost unit for pricing and costing goods transport is Where the production is as per the requirements of the customers, is the method of costing			
	(iv)	Where the production is as per the req	luiren	ents of the customers, is the mo	ethod of costing
	()	used.	nd D	and the total material mix variance is favoura	able and if A has
	(V)	a favourable mix variance, then B wil			ible and it A has
(1)	T., 4l,			ers is correct. You are required to indicate the	a correct answer
(a)		nark) and give brief workings (= 1 magnetic		ers is correct. Tou are required to indicate the	$2 \times 5 = 10$
				f ₹ 15 per labour hour. The actual labour hou	
	(1)	the actual overhead cost is ₹ 85,000.	There	is	its are 3730 and
		100 mm (100 mm) 200 mm (200 mm) (200 m		₹ 1,000 over absorption	
		(a) ₹ 1,250 over absorption (b) ₹ 1,250 under absorption	(d)	₹ 1,000 under absorption	
	(ii)	A chamical process has a normal viel	ld of (-	introduced and
	(11)	(ii) A chemical process has a normal yield of 90%. In a period, 5000 kgs of material were introduced and there was an abnormal loss of 150 kgs. The quantity of good production is			miroduced and
		(a) 4850 kgs		4500 kgs	
		(b) 4650 kgs		4350 kgs	
	(iii)			nd profit is ₹ 60,000, then the amount of con	tribution will be
	(111)	(a) ₹ 1,00,000		₹ 1,50,000	
		(b) ₹ 36,000		₹ 1,86,000	
	(iv)	The following information is given for	` '		
	(11)	Budgeted Sales = 5,00,000 units			
	Finished Goods: Closing Stock = 1,50,000 units; Opening Stock = 80,000 units.				
		Equivalent units of WIP: Closing S	Stock	= 60,000 units; Opening Stock = 50,000 un	its.
		•		***	

I-P8(CMA) Syllabus 2008

The number of equivalent units produced would be

(a) 5,80,000 units

(c) 5.00.000 units

(b) 5,50,000 units

(d) 5,75,000 units

(v) A production process has the capacity to produce either 4,000 units of A or 3,500 units of B or 5,000 units of C. Only one product can be made in a production period. The contributions per unit of A, B and C are ₹ 10, 11 and 8 respectively. The opportunity cost of A would be

(a) ₹ 44,000

(c) ₹ 50,000

(b) ₹ 38,500

(d) ₹ 40,000

2. (a) The following are figures relating to a factory for two successive years:

Year I	Year II
₹	₹
10,00,000	16,80,000
6,00,000	8,00,000
4,00,000	8,80,000
	₹ 10,00,000 6,00,000

During Year II, the selling price increased by 20% and the company implemented a cost reduction programme very aggressively. You are required to analyse the increase in contribution due to

(i) Increase in selling price

(ii) Increase in sales volume

(iii) Reduction in cost

3+4+3=10

(b) How would you deal with the following in Cost Accounts?

(i) Fringe Benefits;

(ii) Bad Debts.

3+2=5

3. (a) The following information is available in respect of fixed overheads for a production period:

Overheads Cost Variance

₹ 1,400 (Adverse)

Overheads Volume Variance

₹ 1,000 (Adverse)

Budgeted Hours

1200 hours ₹ 6,000

Budgeted Overheads

Actual rate of recovery of Overhead ₹ 8 per hour

You are required to compute the following for the given production period:

(i) Actual Overheads Incurred

- (ii) Overhead Expenditure Variance
- (iii) Overheads Capacity Variance
- (iv) Actual Hours for Actual Production

2+2+3+3=10

(b) What do you mean by a joint product and a by-product? How are they different?

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4. (a) The following information is given to you from the records of P Ltd. for the year 2013:

Budgeted Sales Value in 2013:

adjeted bates value in 2015.	
April	₹ 4,00,000
May	₹ 4,50,000
June	₹ 5,20,000
July	₹ 4,20,000
August	₹ 4,80,000
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Contribution to Sales ratio 40%

Fixed Costs ₹ 12,00,000 for the whole year 2013, includes

depreciation ₹3,00,000 per annum

Other Information:

40% of each month's sales is produced in the month prior to the sale and 60% in the month of sale. 50% of the direct materials required for production is purchased in the month prior to their use in production. The remaining 50% is purchased in the month of production. Labour costs are paid in the month in which they are incurred and constitute 30% of the variable costs. 60% of the variable costs are direct material costs. Suppliers of direct

materials are paid in the month after purchase. The remaining variable costs are variable overhead costs, of which 40% are paid in the month they are incurred and the balance paid in the next month. Fixed costs are incurred at a constant rate per month and paid in the month they are incurred. The expected capital expenditure in June 2013 is ₹ 1,90,000. The sales receipts budgeted are as follows:

May 2013 ₹ 4,01,700
June 2013 ₹ 4,50,280
July 2013 ₹ 4,25,880

The bank balance on 1.5.2013 is expected to be ₹ 40,000.

Prepare a month-wise cash budget for P Ltd. for the period May to July 2013.

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(b) Explain the treatment of profits on incomplete work in contract accounts.

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5. (a) A company manufactures a product currently utilizing 80% capacity with a turnover of 32,000 units at a selling price of ₹ 25 per unit. The variable cost of the product is ₹ 17.5 per unit. Fixed cost amounts to ₹ 1,50,000 up to 80% of level of output and there will be an additional cost of a supervisor amounting to ₹ 20,000 beyond that level.

Calculate:

(i) Activity level (%) at break-even point

(ii) Number of units to be sold to earn a net income of 10% of sales

(iii) Activity level (%) to earn a profit of ₹ 1,00,000

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(b) The product of a manufacturing concern passes through two processes, A and B and then to finished stock. It is ascertained that in each process, normally 5% of the total weight is lost and 10% is scrap from which processes A and B realize ₹ 80 per tonne and ₹ 200 per tonne respectively. The following are the figures relating to the processes:

¥	Process A	Process B
Materials (tonnes)	1,000	70
Cost of Materials ₹/tonne	125	200
Wages (₹)	28,000	10,000
Manufacturing Expenses (₹)	8,000	5,250
Output (tonnes)	830	780

There was no stock or WIP in any process.

Prepare the Process Cost A/c of Process B assuming no inter-process profit mark-up on transfers to Process B.

6. (a) From the following figures, do the reconciliation process to arrive at the net profit or loss as per financial accounts:

	Figures(₹)
Net loss as per Costing Records	1,72,400
Works overhead under recovered in Costing	3,120
Administrative overhead recovered in excess in Costing	1,700
Depreciation charged in Financial Records	11,200
Depreciation recovered in Costing	12,500
Interest received not included in Costing	8,000
Obsolescence charged (loss) in Financial Records	5,700
Income Tax provided in Financial Books	40,300
Bank Interest credited in Financial Books	750
Stores Adjustment (credit) in Financial Books	475
Value of Opening Stock in Cost A/cs	52,600
Value of Opening Stock in Financial A/cs	54,000
Value of Closing Stock in Cost A/cs	52,000
Value of Closing Stock in Financial A/cs	49,600
Interest charged in Cost A/cs but not in Financial A/cs	6,000
Preliminary expenses written off in Financial A/cs	800
Provision for Doubtful Debts in Financial A/cs	150

(b) The Production Department of a factory furnishes the following data for the month of May 2013:

Materials used	₹ 54,000
Direct Wages	₹ 45,000
Overheads	₹ 36,000
Labour hours worked	36000
Machine hours	30000

For a certain job executed by the Department during the period, the following data is given:

Materials used		₹ 6,000
Direct Wages		₹ 5,000
Labour hours worked	100	4000
Machine hours used		2400

Calculate the cost of the job when the overheads are charged using

- (i) Direct Material Cost Rate
- (ii) Labour Hour Rate
- (iii) Machine Hour Rate

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- 7. (a) The following is the summary of receipts and issues of material in a factory for May 2013. Prepare the Stores Ledger (only the quantity and rate columns of the Receipts and Issues are required) according to
 - (i) First In First Out Method;
 - (ii) Last In First Out Method;
 - (iii) Compute the Inventory Turnover Ratio under both (i) and (ii). Which method shows a more favourable situation? (For the purpose of this ratio, do not include shortage value in production cost.)

Date: May 2013 Transaction Opening Balance 500 units @ ₹ 25 per unit 1 Issue 70 units 3 4 Issue 100 units Issue 80 units 8 Received from supplier 200 units @ ₹ 24.5 per unit 13 14 Returned to Stores 15 units @ ₹ 24 per unit Issue 180 units 16 Received from supplier 240 units @ ₹ 24.75 per unit 20 24 Issue 304 units

Received from supplier 320 units @ ₹ 24.5 per unit

Issue 112 units

27 Returned to Stores 12 units @ ₹ 24.5 per unit

There was a shortage of 5 units on the 15th and 8 units on the 27th.

Received from supplier 100 units @ ₹ 25 per unit

(b) What are the methods of fixing 'Transfer Price' for transfer of a product from one profit centre to another?

Mention one demerit of each method.

8. Answer any three of the following:

 $5 \times 3 = 15$

- (a) What is a principal budget factor? How is it important? List four such factors.
- (b) Write a short note on the Activity based Costing System.
- (c) Write a short note on 'flexible budget'.
- (d) How are normal and abnormal idle time dealt with in Standard Costing in computing idle time variance?
- (e) State the appropriate costing method and cost units for each of the following industries:
 - (i) Textiles; (ii) Canteen; (iii) Medicines; (iv) Paper; (v) Oil Refinery.