

**5/H-76 (xii) (Syllabus-2015)**

**2 0 1 7**

( October )

**COMMERCE**

( Honours )

( **Cost Accounting** )

( BC-502 )

Marks : 75

Time : 3 hours

*The figures in the margin indicate full marks  
for the questions*

1. (a) What is 'cost centre'? Briefly explain the main purposes of any three cost centres. 5
- (b) What are chargeable expenses? In an industry, is it necessary to distinguish between prime cost, chargeable expenses and overheads? Justify. 6
- (c) Distinguish between 'bin card' and 'stores ledger'. 4

Or

- (a) From the following, calculate EOQ : 5
- Annual demand 200000 units  
Unit price—₹ 200  
Ordering cost—₹ 200 per order  
Storage cost @ 2% p.a.  
Interest rate @ 8% p.a.  
Lead time is half month

( 2 )

- (b) From the following information, prepare stores ledger stating the value of issues under LIFO method : 10

Jan.	2, 2017	Opening balance	1000 kg	@ ₹ 300 per kg
"	3, 2017	Issued	140 kg	
"	4, 2017	Issued	200 kg	
"	8, 2017	Issued	160 kg	
"	13, 2017	Received from vendor	400 kg	@ ₹ 350 per kg
"	15, 2017	Returned of surplus from a work order	30 kg	@ ₹ 280 per kg
"	16, 2017	Issued	360 kg	
"	18, 2017	Received from vendor	600 kg	@ ₹ 320 per kg
"	20, 2017	Issued	550 kg	
"	22, 2017	Received from vendor	400 kg	@ ₹ 340 per kg
"	24, 2017	Issued	250 kg	

2. (a) The three workers G, R and S respectively produced 80, 100 and 120 pieces of a product X on a particular day in May, 2017 in a factory. The time allowed for 10 units of product X is 1 hour and their hourly rate is ₹ 40. Calculate for each of these workers—
- (i) earnings for the day;
- (ii) effective rate of earning per hour under Halsey Premium Bonus Plan and Rowan Premium Bonus Plan. 12
- (b) Define 'under-absorption' and 'over-absorption' of overhead. 3

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( Continued )

( 3 )

Or

- (a) What is operating costing? Mention the name of any two industries, where this costing is applied. 3
- (b) Calculate the comprehensive machine hour rate of a machine from the following : 12
- Cost of the machine ₹ 25 lakhs having a scrap value of ₹ 1 lakh after its effective life of 10 years. The machine will be operated for three shifts of 7 hours each for 300 working days in a year of which 300 hours will be used for machine maintenance.
- Wages payable ₹ 8,000 per month for an operator and ₹ 3,000 per month for a helper for every shift, a sum of ₹ 16,000 per month to one supervisor per shift for the department accommodating four machines including the above machine. Power consumption 25 units (kWh) @ ₹ 4-80 per unit.
- Repair and maintenance ₹ 30,000 per annum.
- General lighting ₹ 4,000 per month for the whole department.
- Rent and rate ₹ 3,000 per month for the whole department.
- Factory overhead ₹ 36,000 per annum for the whole department.

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( Turn Over )

3. (a) Determine the price to be quoted for a job from the following :

Paper 10 reams @ ₹ 1,800 per ream  
 Ink and other printing materials—₹ 5,000  
 Binding material and other consumables—₹ 3,000

Some photography is required for the job. The firm does not have a photographer as an employee. It decides to hire one by paying ₹ 10,000 to him. Estimated job card prepared by production department specifies that service of the following employees will be required for this job :

- (i) Artist (₹ 12,000 p.m.) 80 hours  
 (ii) Copywriter (₹ 10,000 p.m.) 75 hours  
 (iii) Client servicing (₹ 9,000 p.m.) 30 hours

The primary packing material will be required to the tune of ₹ 4,000. Production overheads 40% of direct cost while the selling and distribution overheads are likely to be 25% on production cost. The firm expected a profit of 20% on the quoted price. The firm works 25 days in a month and 6 hours a day.

- (b) Following is the Trial Balance of S Ltd. as on 31st December, 2016 :

	₹
Share Capital (₹ 10 each)	3,51,800
Profit and Loss Account (Cr.) as on 01.01.2016	25,000
Provision for Depreciation on Machinery	63,000
Cash received against Contract No. 7	12,80,000
Creditors	81,200
Land and Building (cost)	74,000
Machinery (cost)	1,62,000
Bank Balance (Dr.)	45,000
Materials consumed for Contract No. 7	6,00,000
Direct Labour for Contract No. 7	8,30,000
Expenses for Contract No. 7	40,000
Machinery sent at site for Contract No. 7	1,00,000

Contract No. 7 commences on 1st January, 2016. The contract price is ₹ 24,00,000 and the contractee has so far paid ₹ 12,80,000 being 80% of the work certified. The cost of work done since certification is estimated at ₹ 16,000.

On 31st December, 2016 after the above Trial Balance was extracted, the machinery costing ₹ 42,000 was returned to store and material then on site was valued at ₹ 27,000. Provision to be made for depreciation at 12.5% of cost.

Prepare Contract No. 7 Account.

( 6 )

Or

A company manufactures a chemical product by a series of operations in three processes. Raw material is fed into Process-I and the finished chemical that comes out of Process-III is transferred to the finished goods store. The following belongs to operations for April, 2017 :

	Process-I	Process-II	Process-III
Raw material issued (80000 kg)	₹ 9,60,000	—	—
Direct wages	₹ 1,25,600	₹ 1,72,000	—
Overhead costs	₹ 1,68,000	₹ 1,77,280	₹ 1,42,500
Normal loss (% of input)	3%	2%	1%
Output transferred to next process	74000 kg	69400 kg	69000 kg
Work-in-process	3000 kg	2400 kg	—

(100% complete but awaiting for transfer to next process)

Prepare process accounts and also abnormal loss and abnormal gain accounts.

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4. (a) Define 'marginal costing. Critically evaluate the basic assumptions of marginal costing.

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(b) A producer of wallets is earning a monthly post-tax profit of ₹ 6,00,000 when income-tax rate is 40%. Selling price of a wallet is ₹ 500 and unit variable cost is ₹ 300. How many more wallets the producer should produce and sell to earn same monthly post-tax profit; if the tax rate goes to 50%?

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( Continued )

( 7 )

Or

(a) The following particulars are extracted from the records of P Ltd. :

	Product-A	Product-B
Unit sale price	₹ 100	₹ 120
Consumption of same raw material	2 kg	3 kg
Material cost	₹ 10	₹ 15
Direct wages cost (₹ 5 per hour)	₹ 15	₹ 10
Direct expenses	₹ 5	₹ 6
Machine hours used	3 hours	2 hours
Fixed overhead per unit	₹ 5	₹ 10
Variable overhead per unit	₹ 15	₹ 20

Comment on the profitability of each product when—

(i) total sales potential in units is limited;

(ii) total sales potential in value is limited;

(iii) raw material is in short supply;

(iv) machine hours is the limited factor. 12

(b) Differentiate between 'marginal costing' and 'absorption costing'. 3

5. (a) What are the possible causes of labour efficiency variance? 5

(b) Explain the steps of flexible budgeting. 5

(c) Describe the managerial use of variances. 5

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( Turn Over )

Or

(a) "Budget is an aid to management, not a substitute for management." Comment. 5

(b) From the following information, calculate all possible material cost variances : 10

Materials	Qty.	Standard Price (per kg)	Qty	Actual Price (per kg)
A	4000 kg	₹ 4.50	20000 kg	₹ 4.00
B	2500 kg	₹ 3.50	12000 kg	₹ 4.00
C	3000 kg	₹ 3.00	13000 kg	₹ 2.50

Normal loss of output for standard is 10%. Actual production is 39000 kg.

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