B Com Hons Delhi (Semester IV)

Paper CH: 4.3 Cost Accounting 2014

(For Regular Course)

Duration: 3 Hours

Maximum Marks: 75

Instructions for Candidates

- 1. Write your Roll No. on the top immediately on receipt of this question paper.
- Attempt all questions. Marks are indicated against each question.
- 1. Use of simple calculator is allowed.
- 4. All questions of each Section (A, B and) should be attempted together.
- Answers may be written in Hindi or English but the same medium should be followed throughout the paper.

SECTION A

- Q. 1. (a) "Cost accounting has become an essential tool in the hands of management". Explain.
 - (b) A Firm purchases 2000 units of a particular item per year at a unit cost of ₹20. The ordering cost is ₹50 per order and the inventory carrying cost is 25%.
 - (i) Determine the optimal order quantity and the minimum total cost including the purchase cost.
 - (ii) If a 3% discount is offered by the supplier for purchases in a lot of 1000 or more, should the firm accept the offer?

Or

- (a) Differentiate between the following terms:
 - (i) Controllable and uncontrollable Cost
 - (ii) Fixed cost and variable Cost
- (b) The following transactions occur in the purchase and issue of a material:

March 2	Purchased	4,000 units @ ₹4 per unit
March 5	Purchased	5,000 units @ ₹5 per unit
March 6	Issued	2,000 units
March 8	Purchased	6,000 units @ ₹6 per unit
March 10	Issued	4,000 units
March 15	Refund of surplus from a work order	25 units @ ₹3 per unit

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	March 17	Issued	1.000	
	March 20	Insued	1,000 units 2,000 units	
	March 24	Returned to vendor	300 units	
			(out of purchases of March 8)	
	March 28	Purchased	4,500 units @ ₹5.50 per unit	
	March 30	Issued	3,000 units	
	The store ve units and on	erifier of the factory note March 31 another short	ed that on Feb 15 he had found a !	shortage of 5
	Required: F	rom the above particular ricing of material retries	t prepare the store ledger account t	0
Q. 2.	(a) (i) Bne Mer	my discuss time rate and	piece rate methods of wage paym	etit
	(II) W na	ntion deficiencies of piece	treated in cost accounts?	5
	(b) Atlas Er	ngineering Limited accer	pts a variety of jobs which require	both manual
	and mac	chine operations.		
	Sales	getted profit and loss acco	ount for the period 2012-13 is as fo	₹75.00.000
	Costs:		an'	m
	Direct	Materials	₹10,00,000 ₹5,00,000	
	Direct	t labour	₹5,00,000	
	Prime	cost	₹15,00,000	
	Produ	ction Overheads	₹ <u>30,00,000</u>	
	Produ	ection costs	₹45,00,000	
		nistrative, selling and	T	₹60,00,000
	distrib	oution Overheads	₹ <u>15,00,000</u>	₹15,00,000
	Profit	S		(15,00,000
	Other bu	dgeted data:		2,500
		ours for the period		1,500
		hours for the period		300
	No. of Jo	bs for the period		
	An enqui ment has	ry has been received rec prepared the following e	ently from a customer and the pro- estimates of the prime cost require	a for the joo.
	Direct ma			12,500
	Direct lal			₹2,000
	Prime co			₹4,500
8		ours required		80
		hours required		50
		required to:		
	Tou are i			

- Calculate overhead absorption rates for absorption of production overheads by five different methods and comment on the suitability of each.
- (ii) Calculate the production overhead cost of the job order based on each of the above rates.

Or

- (a) (i) Define labour turnover. Briefly discuss the three methods to measure it,
 - (ii) Briefly discuss the treatment of bonus and leave with wages in cost accounts.
- (b) A machine shop center contains three identical machines of equal capacity. Three operators are employed on all machines, payable ₹20 hour each. The factory works for forty eight hours a week which includes 4 hours setup time. The work is jointly done by the operators. The operators are paid fully for the forty eight hours. In addition they are paid bonus of 10% of productive time wages. Costs are reported for this company on basis of thirteen four-weekly period. The company for the purpose of computing machine hour rate includes the direct wages of the operators and also recoups the factory overheads allocated to the machines. The following details of factory overheads applicable to the cost centre are available:
 - (i) Depreciation 10% per annum on original cost of machine. Original cost of each machine is ₹52,000.
 - (ii) Maintenance and repairs per week is ₹60.
 - (iii) Consumable stores per week per machine are ₹75.
 - (iv) Power: 20 units per productive hour per machine at the rate of 80 paise per unit.
 - (v) Apportionments to the cost centre: Rent per annum. ₹5,400, heat and light per annum ₹9,720 and foreman's salary per annum ₹12,960.

Required:

- (a) Calculate the cost of running one machine for a four-week period.
- (b) Calculate machine hour rate.

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SECTION B

Q. 3. XY Engineering Works has a Machine Shop in which it manufactures two Auto Parts "X" and "Y" out of the forgings A and B respectively. For the quarter ending December 2012, the following cost data are available:

Consumption of raw materials - A	₹1,50,000
Consumption of raw materials – B	₹2,00,000
Direct Wages – X	₹36,000
Direct Wages – y	₹32,000
Salaries (Factory)	₹85,000
Stores and spares	₹12,000
Repairs and Maintenance	₹15,000
Power	₹16,000

The state of the s	
Depreciation	₹8,000
Other factory overheads	₹50,000
A deministration of the second	₹68,000
Administration overheads	₹64,400
Selling and distribution overheads	₹75,000
Total cost	₹8,11,400
and private that the	

You are given the following further information:

(a) Production, sales and machine hours utilized for "X" and "Y" were as under:

Product Production (Units)	X	Y
Sales of above units (₹)	6,000	4,000
Machine hours utilized	4.80.000	5,20,000
	550	450

- (ii) Direct wages paid for each product is used for apportioning salaries and other factory overheads.
- Factory overhead items like stores and spares, repairs and maintenance, power, insurance and depreciation are charged to cost of both the products on the basis of machine hours used.
- (iv) Administration overheads are apportioned on the basis of respective conversion costs (Wages and all factory overhead items) while selling and distribution overheads on the basis of their sales realizations.
- (v) All the production was sold out.

Required: Prepare cost sheet of both the products and work out profits earnedon each of them.

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A contractor commenced a contract on 1-7-2012, the costing records concerning the said contract reveals the following information as on 31-3-2013:

Particulars	Amount (₹)
Material sent to site Labour paid Labour outstanding as on 31-3-2013 Salary to Engineer Cost of plant sent to site(1-7-2012) Salary to Supervisor (3/4 time devoted to contract) Administration and other expenses Prepaid administration expenses Material site as on 31-3-2013	7,74,300 10,79,000 1,02,500 20,500 p.m. 7,71,000 9,000 p.m. 4,60,600 10,000 75,800

Plant used for the contract has an estimated life of 7 years with residual value at the end of life ₹50,000. Some of the materials costing ₹13,500 was found unsuitable and sold for ₹10,000. Contract price was ₹45,00,000. On 31-3-2013, two third of the contract was completed. The architect issued certificate covering 50% of the contract price and contractor have been paid ₹20,00,000 on account. Depreciation on plant is charged on straight line basis.

Prepare contract account and show how the items relating to this contract will appear in balance sheet.

Q. 4. DPR School is a public school having five buses, each plying in different directions for the transportation of its students. There are two shifts for each bus, one shift is for senior students and other is for junior students. The distance travelled by each bus one way is 8 kms. The school works on an average 25 days in a month and remains close for vacations for three months in a year. Bus fee, however, is payable by the students for 10 months in a year. The details of expenses for a year are as under:

Driver's salary

₹12,000 per month per driver

Cleaner's salary

₹8,000 per month

(Salary payable for all 12 months, one cleaner employed for all the five buses)

Licence fee, taxes etc.

₹17,600 per bus per annum

Insurance

₹20,400 per bus per annum

Repair and maintenance

₹70,000 per bus per annum

Purchase price of the bus

₹21,00,000 each

Life

12 years

Scrap value

₹3,00,000

Diesel cost

₹48 per litre

Each bus gives an average of 4 kms per litre of diesel. The seating capacity of each bus is 50 students. Students picked up and dropped within a range of 4 kms of distance from the school are charged half the fare and 50% of students travelling in each trip are in this category. Ignore interest. Since the charges are to be based on average cost, you are required to:-

- (i) Prepare a Statement showing the expenses of operating a single bus.
- (ii) Work out the average cost per student per month in respect of
 - (a) Students coming from a distance of upto 4 kms from the school.
 - (b) Students coming from a distance of beyond 4 kms from the school.

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Or

The following data relates to process B:

(i) Opening work-in-progress:

4,000 units

Degree of completion:

Materials 100%

₹24,000

Labour 60%	₹14,400
Overheads 60%	₹7,200
(ii) Received during the month of April 2013 from Process A	
anits	₹1,71,000
(iii) Expenses incurred in Process B during the month:	
Materials	₹79,000
Labour	₹1,38,230
Overheads	₹69,120
(iv) Closing work-in-progress:	3,000 units
Degree of completion:	
Material	100%
Labour and Overheads	60%
(v) Units Scrapped	4,000
Degree of Completion:	. 2001
Materials	100%
Labour and Overheads	80%
(vi) Normal loss: 5% of Current input.	COTI
(vii) Spoiled goods calized ₹1.50 per unit on sale.	
(viti) Completed units are transferred to warehouse.	
Labour and Overheads (vi) Normal loss: 5% of Current input. (vii) Spoiled goods calized ₹1.50 per unit on sale. (viii) Completed units are transferred to warehouse. Assume that FIFO method is used for WIP Inventory valuation.	

used for WIP Inventory valuation.

Required:

(i) Statement of equivalent production

- (ii) Statement showing cost per unit for each element
- (iii) Statement of apportionment of cost

(iv) Process B account

(v) Any other account necessary

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SECTION C

- Q. 5. (a) Write short notes on any two of the following:
 - (i) Waste and scrap
 - (ii) Departmentalization of overheads

(b) The following is the summarized version of Trading and profit and loss account

of continental Enterprise Ltd. For the year ended December 31, 2012.

0) 1	Amount	mount Particulars	
Particulars To Material	48,000	By sales By cl. stock of finished	1,00,000
To wages	36,000 24,000	goods	1
To work expenses	1,		Continua

(Continue)

To gross profits	18,400	By work in progress Material 3,000 wages 1,800	
		work exp. <u>1,200</u>	6,000
	1,26,400		1,26,400
To administration expense	6,000	By gross profits	18,400
To selling overheads	4,000		
To net profits	8,400		
	14,400		14,400

During the year 6000 units were manufactured and 4800 of them were sold. The costing records show that works overheads have to be absorbed @ 50% of direct wages, administration overheads at ₹1.50 per unit produced and selling overheads @ ₹1 per unit sold.

Financial and cost account books show different profits.

Required: (i) Calculate profit as per cost accounts books.

(ii) Prepare a statement reconciling two profits disclosed in two set of books, clearly bringing out the reasons for the difference.

Or

- (a) Write short notes on any two of the following:
 - (i) Impact on profit of FIFO and LIFO methods of pricing of material issues under inflationary conditions.
 - (ii) Escalation clause in contract costing.

(iii) Treatment of research and development cost.

(b) Why there is a need to reconcile the profits disclosed in financial and cost account books? Discuss in detail the causes of such differences?

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