Advanced Cost Accounting 2009 April Commerce Accountancy MCom

Part 1

University of Mumbai

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[Total Marks : 100

- N.B. (1) Question No. 1 is compulsory. Attempt any four questions from the remaining.
 (2) All questions carry 20 marks each and sub-questions carry equal marks unless specified to the contrary.
 - (3) Workings to form part of the solutions and necessary assumptions to be made and stated clearly.
- A transport company supplies the following details in respect of a truck of 5 tonne capacity which carries goods to and from the city covering a distance of 50 kms. each way.

	Rs.
Cost of truck	1,80,000
Diesel, oil, grease (per trip each way)	30
Repairs and maintenance (per month)	1,500
Driver's (monthly) wages	1,500
Cleaner-cum-attendant's wages (monthly)	750
Insurance (per year)	9,000
Road licence (per year)	3,000
General Supervision charges (per year)	6,000
Estimated life (years)	10

While going to the city, freight is available for a full load of the truck and on its return journey it can tetch freight only up to 20 per cent of its capacity.

On the assumption that the truck runs on an average 25 days a month, you are required to determine the following :

- (i) Operating cost per tonne-km,
- (ii) Rate per tonne per trip that the company should charge if profit of 50 per cent on cost is to be earned, and
- (iii) What freight should the Company charge if one wants to engage the truck for one day for a trip to the city and back 7
- 2. Following relevant data of a firm is given :

	Activity Levels (tons)				
Particulars	50,000 tons	60,000 tons	70,000 tons	80,000 tons	
Variable Cost (Rs. in thousands)	5,000	6,000	7,000	8.000	
Semi-variable Cost (Rs. in thousands)	1,500	1,600	1,650	1,700	
Fixed Cost (Rs. in thousands)	2,500	2,500	3,000	3,000	
Total Cost (Rs. in thousands)	9,000	10,100	11,650	12,700	

The fixed costs follow step-graph pattern as is clear from the above and the semi-variable costs change at uniform rate between the above given activity levels. Given that the firm operates at 55,000 tons level at present,

- (1) Calculate the additional/incremental costs if it manufactures additional

 (a) 10,000 tons (b) 15,000 tons and
- (2) Advise whether the firm should accept 'any one' of the following additional (special) export market offers and if Yes, 'which one' should it accept ;
 - (i) fc.: 10,000 tons at a selling price of Rs. 125/- per ton
 - (ii) for 15,000 tons at a selling price of Rs. 150/- per ton.



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- A manufacturing company uses the following standard mix of their compound in one batch of 100 kgs, of its production line :
 - 50 kgs of material X at the standard price of Rs. 2.
 - 30 kgs of material Y at the standard price of Rs. 3.
 - 20 kgs of material Z at the standard price of Rs. 4.

The actual mix for a batch of 120 kgs was as follows :

- 60 kgs of material X at the price of Rs. 3.
 - 40 kgs of material Y at the price of Rs. 2-5.
 - 10 kgs of material Z at the price of Rs. 3.

Calculate the different material variances.

- 4. The following data relate to Process Q :
 - (i) Opening work-in-process 4,000 units costing Rs. 45,600

Degree of completion :		100 C State			
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0				01000	
	Materials	100%	Hs.	24,000	
	Labour	60%	Rs.	14,400	
	Overheads	60%	Rs.	7,200	
			007 L	D tolo	1

- (ii) Received during the month of April, 2007 from Process P 40,000 units at Rs. 1,71,000
- (iii) Expenses incurred in Process Q during the month :

	Materials	Rs.	79,000
	Labour	Rs.	1,38,230
	Overheads	Rs.	69,120
(iv)	Closing work-in-process	4	111
	Degree of Completion :	0	1. 1

Degree of Completion .	11
Materials) 100%
Lapour and Overheads	50%

4,000 units

- (v) Units scrapped Degree of completion : Materials 100% Labour and overheads 80%
- (vi) Normal loss : 5% of current input
- (vii) Spoiled goods realised Rs. 1-50 per unit

(viii) Completed 36,000 units are transferred to warehouse.

Required : Prepare (By FIEO Method)

- (i) Statement of equivalent units
- (ii) Statement of cost per equivalent unit and total costs
- (iii) Process Q Account.
- Rex Enterprises operates an integral system of accounting. You are required to pass the Journal Entries for the following transactions that 'took place for the year endel 30th June, 2007. ;

	Hs.
Raw materials purchased (50% on credit)	6,00,000
Materials issued to production	4,00,000
Wages paid to workers	2,00,000
Factory overheads incurred	80,000
Factory overneads charged to production	1,00,000
Selling and distribution overheads incurred	40,000
Finished goods at cost	5,00,000
Sales (50% credit)	7,50,000

6:	The following information relates to the p	productive activities of Delta Ltd. for 3 mor	nt.
	ending on 31st March 2008 :	(2)	

Particulars	XX D
Variable Expenses : (at 50% capacity)	Rs.
Materials	6,00,000
-Labour	6,40,000
-Salesmen's Commission	95,000
*	13,35,000
Semi-variable Expenses : (at 50% cap	acity)
-Plant maintenance	62,500
-Indirect Labour	2,47,500
-Salesmen's salaries	72,500
—Sundry	65,000
	4,47,500
Fixed Expenses :	
-Management Salaries	2,10,000
-Rent and Taxes	1,40,000
-Depreciation of Machinery	1,75,000
-Sundry Office Expenses	2,22,500
	7,47,500

It is further noted that semi-variable expenses remain constant between 40% and 70% capacity, increase by 10% of the above figures between 70% and 85% capacity and increase by 15% of the above figures between 85% and 100% capacity.

Fixed expenses remain constant whatever the level of activity may be. Sales at 60% capacity are Rs. 25,50,000, at 80% capacity are Rs. 34,00,000 and at 100% capacity are Rs. 42,50,000

Assuming that all items produced are sold, you are required to prepare a flexible budgot at 60%, 80% and 100% capacity.

 (a) Ambar construction Ltd., undertook a contract for Rs. 20,00,000 on 1st April, 2007. On 31st March, 2008, when the accounts were closed, following details were available :

Part	iculars	Rs.	
	Materials purchased	4,00,000	
	Work certified	8,00,000	
	Materials on hand on 31st March, 2008	1,00,000	
	Machinery purchased	2,00,000	
	Cash received	6.00,000	
	Wages paid	1,80,000	
	Work uncertified	60,000	
	General expenses	40,000	
	Wages accrued	20,000	

Depreciation on machinery is to be charged @ 10% per annum. However the contract contains an escalation clause as under :

"In the event of price of materials and rate of wages increase by more than 5%, then the contract price will be increased accordingly by 40% of the rise in the cost of materials and wages beyond 5% in each case".

It is found that after signing the agreement the price of materials and wage rate increased by 25% each. The value of the work certified does not take into account the effect of the above clause. Prepare the contract account giving the effect of the above escalation.



(b) You are given the following information for the next year :

Particulars	Rs.
Sales (10,000 units)	1,20,000
Variable Cost (10,000 units)	48,000
Fixed Cost	60,000

- (1) Find out the P.V. ratio and Break-even Point.
- (2) Evaluate the effect of following on P.V. ratio and Break-even Point.
 - (a) 10% decrease in Variable Cost
 - (b) 10% decrease in Fixed Cost
 - (c) 10% increase in Physical Sales Volume
 - (d) 5% increase in Selling Price.
- 8. (a) Relax Hotel has a capacity of 100 single rooms and 20 double rooms. The average occupancy of both single and double rooms is expected to be 80% throughout the year of 365 days. The rent for the double room has been fixed at 125% of the rent of the single room. The costs are as under :

Variable Costs : Single rooms Rs. 220 each per day. Double rooms Rs. 350 each per day Single rooms Rs. 120 each per day

Double rooms Rs. 250 each per day

Calculate the rent chargeable for single and double rooms per day in such a way that the hotel earns an overall profit of 20% on hire charges of rooms.

(b) A company manufacturing and marketing a product supplies the following information :

	Stand	ard Sales		Actual	Sales
Units	Price /	Amount	Units	Price	Amount
	Rs.	Rs.		Rs.	Rs.
10,000	3.00	30,000	5,000	3.00	15,000
		1	8,000	2.50	20,000
		-	13,000		

Calculate

- (1) Sales value variance
- (2) Sales Volume variance
- (3) Sales price variance.
- 9. Write short notes on (any four) :---
 - (a) Inter-link of Budgetary control and variance analysis ;
 - (b) Utility of Standard Costing;
 - (c) Different types of Budgets useful for a typical business enterprise;
 - (d) Implications of the angle of incidence;
 - (e) Special features of Operating Costing;
 - (f) Importance of Marginal Costing in decision making function.

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