Advanced Cost Accounting 2010 October Commerce Accountancy MCom

Part 1

University of Mumbai

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Action col & House - Action til Total Marks: 100

- N.B. (1) Q. No. 1 is compulsory. Attempt any four questions from the ramaining.
 - (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.
- 1. The following information is available in respect of a firm:

Balance Sheet as on 1st August, 2009 :-

Liabilities	Rs.	Assets	300	Rs.
Accrued wages	600	Cash		5,100
Capital	-59,200	Account Réceivable		14,700
Other Liabilities	2,000	Inventory	Sign elli, V	26,000
		Fixed Assets	20,000	
		Less Depreciation	4,000	16,000
	61,800	2011/19/20	1 - 3-	61,800

Further:

(a) (i) Sales are 40 percent against cash, 60 percent on credit.

(ii) Of the credit sales, 75 percent are collected in the first month following sales and 25 percent in the second month following sales.

(iii) All inventory purchases are paid for during the month in which they are made.

- (iv) A basic inventory of Rs. 10,000 (cost) is constantly maintained and the firm follows a policy of purchasing enough additional inventory each month to cover 1.25 times the following month's sales. Its gross profit margin is 20 percent on sales.
- (v) A minimum cash balance of Rs. 2,000 is to be maintained by the firm.
- (vi) "Accrued wages" and "other current liabilities" have remained unchanged.

(b) Past Sales:

	Rs.	Rs.
June, 2009	2,	18,000
July, 2009		20,000

(c) Sales Budget:

	Rs.		Rs.
August, 2009	20,000	November, 2009	40,000
September, 2009	26,000	December, 2009	50,000
October, 2009	24,000	January; 2010	18,000
		February, 2010	16,000

(d) Monthly Expenses:

(i) Wages and Salaries :

2009	Rs.		Rs.
August	1,400	November 2009	2,000
September	1,600	Desember 2009	3,000
October	1,600	January 2010	1,400

(ii) Rent : Rs. 400 per month

(iii) Depreciation : Rs. 150 per month

(iv) Other expenses: 1 percent of sales.

You are required to work out the Cash Budget for the months August, 2009 to January, 2010 also indicating the necessary borrowings.

- Mr. X, a contractor, is to procure vehicles for transport of materials from his godown
 to the work site. He has to make a choice between trucks on the one hand and
 tractors with trailers on the other. The following details are furnished by him:—
 - (a) The distance between godown and work site is 4 km. and a bridge is lying on the route on which vehicles carrying over 6 tonnes are prohibited.
 - (b) In order to complete the work in time 60 tonnes of materials shall have to be moved to the work site per day of 8 hours.
 - (c) The costs of the truck, tractor and trailer are respectively Rs. 70,000, Rs. 48,000 and Rs. 18,000.
 - (d) Salary for a driver is estimated at Rs. 300 per month.

(e) Maintenance charges are estimated as under :

Truck Rs. 240 per month
Tractor 200 per month
Trailer 60 per month

(f) Depreciation allowable is 20% p.a. in each case.

(g) On an average the truck will run 20 km. per gallon of diesel and the tractor 12 km.

(h) One gallon of diesel will cost Rs. 6.

You are required to work out the cost per tonne under both 'Truck' and 'Tractor with trailers' alternatives respectively.

 A company manufactures a particular product the standard direct materials cost of which is Rs. 10 per unit. The following information is obtained from the costing records:—

(a) Standard Mix:

Material	Quantity	Rate	Amount
	(units)	(Rs.)	(Rs.)
A	70	10	700
B	30	5	150
Loss: (15%)	100	30.	850 -
1	85	1	850

(b) Actual results for June, 2008:

Material	Quantity (units)	Rate (Rs.)	Amount (Rs.)
A	400	11	4,400
В.	200	6	1,200
	600		5,600
Loss: (10%)	60		-
	540		5,600

Compute:

(i) Total Material Cost Variance;

- (iv) Material Yield Variance;
- (ii) Material Price Variance;
- (v) Material Usage Variance.
- (iii) Material Mix Variance;
- Mill and Co. undertook a contract for Rs. 12,50,000 on 1st April, 2009. On 31st March, 2010, when the accounts were closed, the following details of the contract were available:—

Particulars	Rs.
Materials purchased	2,50,000
Plant purchased (1st April, 2009)	1,25,000
Wages paid	1,25,000
Work certified (retention : 20%)	5,00,000
Work uncertified	37,500
Materials on hand on 31st march, 2010	52,500
General expenses	25,000

Depreciation on machinery is to be charged @ 10% per annum. .

The contract contained an escalation clause as follows :-

"In the event of price of materials and rate of wages increase by more than 5%, the contract price will be increased by 25% of the rise in the cost of materials and wages beyond 5% in each case".

It was found that after signing the agreement, the price of materials and wage rates had increased by 25% each. The value of the work certified does not take into account the effect of the above clause.

Of the Plant and materials charged to the contract, Materials costing Rs. 10,000 were lost and on 31st March, 2010, Plant 'costing' Rs. 20,000 was returned to stores.

Prepare the contract account giving the effect of the above escalation.

The following data pertains to Process I of XYZ Ltd. for March, 2009 :-

Opening Work-in-progress 1,500 units at Rs. 15,000

(Degree of completion : material 100%; Labour and Overheads 33-33%)
Input of materials

18,500 units at Rs. 52,000
Rs. 14,000

Overheads Rs. 14,000
Rs. 28,000

Closing Work-in-progress 5,000 units

(Degree of completion: Material 90%; Labour and Overheads 30%) Normal process loss is 10% of total input. Scrap value Rs. 2 per unit.

Transferred to nex! process: 15,000 units.

Assuming F. I. F. O. method. You are required to prepare :

(a) Statement showing equivalent units of production.

(b) Statement showing cost per equivalent unit for each cost element.

(c) Statement of cost apportionment.

(d) Process I Account

(e) Abnormal Loss / Abnormal Gain Account (if any). .

. The following is the data of M Ltd. relating to two types of machines :-

	Existing Machine	New Machine
Output per annum (units)	2,000	4,000
	Rs.	Rs.
Capital cost	25,000	1,00,000
Marginal ccst	15.00	13.00
Selling price	30.00	30.00
Fixed expenses per annum	12,000	32,000
Life	10 years	10 years

The existing machine has completed five years of services and the present resale value is Rs. 10,000.

Advise, on the basis of 'annual' comparative data analysis taking into account all aspects and assuming 15% p.a. as the rate of interest, whether the company should go for the new machine or not and also highlight subjective / qualitative factors for consideration of the management in regard thereto.

 (a) From the following data of a concern, find out the Fixed Costs, P/V Ratio and Break-even Sales:—

First half-year 14,433 385 Second half-year 18,203 1,139

Also calculate:

- (i) Profit or Loss at Sales of Rs. 12,000;
- (ii) Sales required to earn a profit of Rs. 2,000;
- (iii) Margin of safety at sales of Rs. 24,000.

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(a)

(b) State the different factors to be complete while devising a production budget and the link between a production budget and its relevant purchase budget.

8. As on 31st March, 2007, the following balances existed in a firm's Cost Ledger :-

	Dr.	Cr.
and the second of	Rs.	Rs.
Stores Ledger Control A/c	3,01,435	
Work-in-Progress Control A/c	1,22,365	
Finished Stock Ledger Control A/c	2,51,945	
Manufacturing Overhead Control A/c		10,525
Gen. Ledger Control A/c		6,65,220
	6,75,745	6,75,745

Following data relates to the next three months :-

	Rs.	
Finished product (at cost)	2,10,835	
Manufacturing overhead incurred	91,510	
Raw materials purchased	1,23,000	
Factory Wages	50,530	
Indirect Labour	21,665	
Cost of Sales	1,85,890	
Material issued to production	1,27,315	
Sales returned at Cost	5,380	
Material returned to suppliers	2,900	
Manufacturing overhead charged to production	77,200	

You are required to write up the Ledger Accounts for quarter ended 30-6-2007.

- (b) 'Master budget' is the overall comprehensive budget and encompasses the various other budgets. Explain.
- 9. Write short notes on (any four) of the following: -
 - (a) Cost Audit Programme
 - (b) Difference between variance analysis of 'Costs' and 'Incomes' and their importance
 - (c) Master budget
 - (d) Difference between 'Fixed' and 'Flexible' budget
 - (e) Structural difference between 'Financial' and 'Cost' Profit and Loss Accounts.

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