## Advanced Cost Accounting 2010 April

## **Commerce Accountancy MCom**

## Part 1

## University of Mumbai

shaalaa.com

Con. 21.86-10

Accountancy Par EL IL. LN. Advanceel 13 Hours + ACGOUNTINGTOTAL Marks.

N.B. (1) Q. 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 firm already in production gives you its following details :--1.

Capacity	Unit Cost	Unit Price
(Units)	Rs.	Rs.
6.000	80	100
7,000	75	97
8,000	74	95
9,000	72	
10,000	71	

The firm is operating at 8,000 units' capacity at present and cannot exceed, in any case, totally 15,000 units' capcity level by any means. Under the circumstances, the firm receives two alternative additional orders, only one of which it can accept :-

(a) For 2,000 units from an export market at a price of Rs. 70 per unit.

- (b) For 7,000 units from another export market at a price of Rs. 75 per unit and it is given that the firm has to increase its establishment for going from 10,000 units to 15,000 units which would result into additional fixed cost of "Rs. 30,000 per annum, in addition to the 'per unit' cost of Rs. 71 at 10,000 units level which would remain the same even subsequently i.e. at the level of 15,000 units.
- Advise the firm as to whether any of the alternative additional export orders should be accepted or not, any if yes, which one ?

2. A state Transport Corportation has been in serious tinancial and operational difficulty due to high prices of spares, rising fuel cost and high wages.

The running operational expenses have been worked out for a single-deck bus and are reproduced below :-

Total fleet-500 buses single-deck

Average Passengers occupying each trip : 40

11	List of e	expenses for one year period ender ble Expenses : Total for 30,000 km	a 31.12.2 n. per bus	per year	Rs.		
11	(i)	Fuel diesel oil	an <b>an</b> shaar		10,000		
11	(ii)	Tyres, tube and batteries			5,000	6	
	(iii)	Lubricants			1,500		
10.00		Spare parts and accessories	. ·		4,500		
	(v)	Wages, fringe benefit and bonus			28,000		3
		Expenses :					
	(i)	Road Tax			1,500		
	(ii)	Insurance			2,500		
	(iii)	Rent for night parking garage			3,000	·	
	(iv)	Maintenance garage establishme	ent cost		2,000		
	(v)	Original cost per bus			2,00,000	4	
	Depr	eciation @ 15% p.a. on straight lin	ne hasis		i	1	
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strative Expenses :	Total per year *
strative Expenses	Rs.
Administrative establishment cost	13,05,000
(including Salaries and P. F.)	
Staff welfare cost	57,000
Retirement gratuity	50,000
Rates and taxes	50,000
Travelling and conveyance	38,000
Postage, telephone and stationery	2,10,000
Audit fee	25,000
Electricity	70,000
Interest and bank charges	2,80,000
Miscellaneous	40,000
	(including Salaries and P. F.) Staff welfare cost Retirement gratuity Rates and taxes Travelling and conveyance Postage, telephone and stationery Audit fee Electricity Interest and bank charges

Administrative overhead is to be absorbed in the operating cost on the basis of availab number of budgeted operatable fleet (calculated on the basis of total fleet less 15' breakdown).

You are required to advise management regarding the fare structure on cost plu 10% basis for the following stages of travel, assuming that the fare is charged i proportion to kilometers travelled.

Minimum fare on :-

1st stage of travel 2nd stage of travel 3rd stage of travel

5 km. 10 km. 15 km.

(Rounded off to nearest paise)

3. V. N. Ltd. operates on a standard cost system to produce an article mixing two raw materials and following are the standards :--

40% of Material A at Rs. 4 per kg., 60% of Material B at Rs. 3 per kg. A standard loss of 15% is expected in production.

The following actual cost data is given for March, 2010 (Production : 1700 kg of inished product) :-

	Stock on	Stock on	Purchase for March, 2010	
	1.3.2010	31.3.2010	Kgs.	Rs.
Material A	35 kgs. (no variance)	5 kgs.	800	3,400
Material B	40 kgs. (no variance)	50 kgs.	1,200	3,000

Calculate the following variances in respect of the purchase during the month that are consumed :---

(a) Material Price Variance

(b) Material Mix Variance

(c) Material Yield Variance

(d) Material Cost Variance

(e) Material Usage Variance.

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 The following are the estimated sales of a company for eight months ending 30.11.2008 :---\_\_\_\_\_\_

Months		Estimated Sales (Units)	
April	2008	12,000	
May	2008	13,000	
June	2008	9,000	
July	2008	8,000	
August	2008	10,000	
September	2008	12,000	
October	2008	14,000	
November	2008	12,000	

As a matter of policy, the company maintains the closing balance of finished goods and raw materials as follows :---

Stock items Closing balance of a month

Finished goods 50 % of the estimated sales for the next month Estimated consumption for the next month.

Each unit of production requires 2 kg. of raw material costing Rs. 5 per kg. Prepare Production Budget (in units) and Raw Material Purchase Budget (in units and cost) of the company for the half year ending 30th September, 2008.

5. Following information is available regarding process A for the month of February 2008 : --

	2		Units	
(i)	Opening Stock		4,000	
	Degree of completion	1 A A A A A A A A A A A A A A A A A A A	1	
	Material	100%		
- Q.	Labour and Overhead	25% each		
	New units input in process	3	16,000	
	Total units processed		20,000	
	Production report shows the	he following results :		
	Units completed	· · · · · · · · · · · · · · · · · · ·	14,000	
	Units in process on 28th Fe	ebruary, 2008		
575	(Closing stock) :	C E4	a har	
	Material	100%		
	Labour and Overhead	33 1/3rd % each	6,000	
	Loss in Production -		nil	
	Cost record			
	Work-in-process as on 31	<sup>st</sup> January, 2008 :	Rs.	
	Material	•	1,200	
	Labour	1	200	
	Overhead		200	
	Cost for February 2008 :			
	Material	1	5,120	
	Labour	13	3,000	
	Overhead		3,000	
	Total cost to be accounted	d for	12750	
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Presuming that FIFO method of Inventory Costing is used, prepare :

- (i) Statement of equivalent production
- (ii) Statement showing cost for each element
- (iii) Statement of apportionment of cost
- (iv) Process cost account for process A.
- From the following information you are required to prepare necessary Ledger Accounts and Trial Balance under system of integrated accounts in the books of Excel Co. Ltd. :

Particulars	Rs.
Material purchased on credit	29,600
Wages paid	33,600
Wages productive	29,600
Wages unproductive	4,000
Material issued to production	25,600
Works expenses incurred	13,000
Finished goods at cost	60,000
Works expenses charged to production	17,000
Administration expenses paid and charged to production	8,800
Seling overheads paid and charged to sales	6,000
Cash sales	85,000

7. (a) X Ltd. furnishes you the following particulars :--

- Product X requires 20 hours per unit
- Standard rate per hour is Rs. 2
- Units producted : 4,000

Hours taken 76,000 (including 200 hours for power failure) at Rs. 2-10 per hour. Calculate :-

- (i) Direct Labour Cost Variances
- (ii) Direct Labour Rate Variances
- (iii) Direct Labour Efficiency Variance
- (iv) Direct Labour Idle Time Variance.
- (b) Explain in brief "Methods of Costing" and "Techniques of Costing."
- 8. (a) The ratio of variable cost of a product to sales is 70%. The break-even point occurs at 60% of the capacity sales. Find the capacity sales when fixed costs are Rs. 90,000. Also compute profit at 75% of the capacity sales.
  - (b) Explain the concept of 'Cost Escalation Contracts' illustrating it with two examples-one of an Incomplete contract and another of a Complete contract.
- 9. Write short notes on (any four) :---
  - (a) Fixed Overhead Variance
  - (b) Principles of Integrated System of Accounting
  - (c) Functional Budget
  - (d) Cost Plus Contract
  - (e) Margin of Safety
  - (f) Rights of Cost Auditor.