



Set-ups	60
No. of inspections	18

**Required:**

- (i) CALCULATE cost driver rates.
- (ii) CALCULATE the total and unit cost for the batch.

**(5 Marks)**

**Question 2:**

**(a)** BabyMoon Ltd. uses standard costing system in manufacturing one of its product 'Baby Cap'. The details are as follows:

Direct Material 1 Meter @ Rs. 60 per meter	Rs. 60
Direct Labour 2 hour @ Rs. 20 per hour	Rs. 40
Variable overhead 2 hour @ Rs. 10 per hour	Rs. <u>20</u>
Total	Rs. <u>120</u>

During the month of August, 10,000 units of 'Baby Cap' were manufactured.

Details areas follows:

Direct material consumed	11,400 meters	@	Rs. 58 per meter
Direct labour Hours	?	@	Rs. 4,48,800
Variable overhead incurred			Rs. 2,24,400

Variable overhead efficiency variance is Rs. 4,000 A. Variable overheads are based on Direct Labour Hours.

You are required to CALCULATE the following Variances:

- (a) Material Variances-  
Material Cost Variance, Material Price Variance and Material Usage Variance.
- (b) Variable Overheads Variances-  
Variable overhead Cost Variance and Variable overhead Expenditure Variance.
- (c) Labour variances-  
Labour Cost Variance, Labour Rate Variance and Labour Efficiency Variance.

**(10 Marks)**

**(b)** Aditya Ltd. is engaged in heavy engineering works on the basis of job order received from industrial customers. The company has received a job order of making turbine from a power generating company. Below are some details of stores receipts and issues of copper wire, used in the manufacturing of turbine:

Feb. 1	Opening stock of 1,200 Kgs. @ Rs. 475 per kg.
Feb. 5	Issued 975 kgs. to mechanical division vide material requisition no. Mec 09/13
Feb. 6	Received 3,500 kgs. @ Rs. 460 per kg vide purchase order no. 159/2013
Feb. 7	Issued 2,400 kgs. to electrical division vide material requisition no. Ele 012/13
Feb. 9	Returned to stores 475 kgs. by electrical division against material requisition no. Ele 012/13.
Feb. 15	Received 1,800 kgs. @ Rs. 480 per kg. vide purchase order no. 161/2013
Feb. 17	Returned to supplier 140 kgs. out of quantity received vide purchase order no. 161/2013.
Feb. 20	Issued 1,900 kgs. to electrical division vide material requisition no. Ele 165/ 2013

On 28th February, 2014 it was found that 180 kgs. of wire was fraudulently misappropriated by the stores assistant and never recovered by the company.

From the above information you are required to prepare the Stock Ledger account using 'Weighted Average' method of valuing the issues.

**(10 Marks)**

**Question 3:**

(a) 'Humara - Apna' bank offers three products, viz., deposits, Loans and Credit Cards. The bank has selected 4 activities for a detailed budgeting exercise, following activity based costing methods.

The bank wants to know the product wise total cost per unit for the selected activities, so that prices may be fixed accordingly.

The following information is made available to formulate the budget:

Activity	Present Cost (Rs.)	Estimation for the budget period
ATM Services:		
(a) Machine Maintenance	4,00,000	All fixed, no change. Fully fixed, no change. Expected to double during budget period.
(b) Rents	2,00,000	
(c) Currency Replenishment Cost	1,00,000	
	7,00,000	(This activity is driven by no. of ATM transactions)
Computer Processing	5,00,000	Half this amount is fixed and no change is expected. The variable portion is expected to increase to three times the current level.
		(This activity is driven by the number of computer transactions)
Issuing Statements	18,00,000	Presently, 3 lakh statements are made. In the budget period, 5 lakh statements are expected. For every increase of one lakh statement, one lakh rupees is the budgeted increase. (This activity is driven by the number of statements)
Computer Inquiries	2,00,000	Estimated to increase by 80% during the budget period. (This activity is driven by telephone minutes)

The activity drivers and their budgeted quantifies are given below:

Activity Drivers	Deposits	Loans	Credit Cards
No. of ATM Transactions	1,50,000	---	50,000
No. of Computer Processing Transactions	15,00,000	2,00,000	3,00,000
No. of Statements to be issued	3,50,000	50,000	1,00,000
Telephone Minutes	3,60,000	1,80,000	1,80,000

The bank budgets a volume of 58,600 deposit accounts, 13,000 loan accounts, and 14,000 Credit Card Accounts.

Required:

- (i) CALCULATE the budgeted rate for each activity.
- (ii) PREPARE the budgeted cost statement activity wise.
- (iii) COMPUTE the budgeted product cost per account for each product using (i) and (ii) above.

**(10 Marks)**

(b) Pass journal entries in the cost books, maintained on non-integrated system, for the following:

(i) Issue of materials:	Direct Rs. 5,50,000; Indirect Rs. 1,50,000
(ii) Allocation of wages:	Direct Rs. 2,00,000; Indirect Rs. 40,000

(iii) Under/Over absorbed overheads:	Factory (over) Rs. 20,000; Administration (under) Rs. 10,000
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**(10 Marks)**

**Question 4**

- (a) From the following Information for the month ending October, 2013, prepare Process Cost accounts for Process III. Use First-in-first-out (FIFO) method to value equivalent production.

Direct materials added in Process III (Opening WIP)	2,000 units at Rs. 25,750
Transfer from Process II	53,000 units at Rs. 4,11,500
Transferred to Process IV	48,000 units
Closing stock of Process III	5,000 units
Units scrapped	2,000 units
Direct material added in Process III	Rs. 1,97,600
Direct wages	Rs. 97,600
Production Overheads	Rs. 48,800

Degree of completion:

	Opening Stock	Closing Stock	Scrap
Materials	80%	70%	100%
Labour	60%	50%	70%
Overheads	60%	50%	70%

The normal loss in the process was 5% of production and scrap was sold at Rs. 3 per unit.

**(10 Marks)**

- (b) A company has a P/V ratio of 40%. By what percentage must sales be increased to offset: 20% reduction in selling price?

**(10 Marks)**

**Question 5:**

- (a) MP Ltd. produces a Product-X, which passes through three processes, I, II and III. In Process-III a by-product arises, which after further processing at a cost of Rs. 85 per unit, product Z is produced. The information related for the month of September 2020 is as follows:

	Process-I	Process-II	Process-III
Normal loss	5%	10%	5%
Materials introduced (7,000 units)	1,40,000	-	-
Materials added	62,000	1,36,000	84,200
Direct wages	42,000	54,000	48,000
Direct expenses	14,000	16,000	14,000

Production overhead for the month is Rs. 2,88,000, which is absorbed as a percentage of direct wages.

The scraps are sold at Rs. 10 per unit

Product-Z can be sold at Rs. 135 per unit with a selling cost of Rs. 15 per unit

No. of units produced:

Process-I-6,600; Process-II-5,200, Process-III-4,800 and Product-Z-600

There is no stock at the beginning and end of the month.

You are required to PREPARE accounts for:

- (i) Process-I, II and III.
- (ii) By-product-Z

**(10 Marks)**

- (b) AK Limited produces and sells a single product. Sales budget for calendar year 2013 by a quarters is as under:

Quarters	I	II	III	IV
No. of units to be sold	18,000	22,000	25,000	27,000

The year is expected to open with an inventory of 6,000 units of finished products and close with inventory of 8,000 units. Production is customarily scheduled to provide for 70% of the current quarter's sales demand plus 30% of the following quarter demand. The budgeted selling price per unit is Rs. 40. The standard cost details for one unit of the product are as follows:

Variable Cost Rs. 34.50 per unit

Fixed Overheads 2 hours 30 minutes @ Rs. 2 per hour based on a budgeted production volume of 1,10,000 direct labour hours for the year. Fixed overheads are evenly distributed through- out the year.

You are required to:

- (i) Prepare Quarterly Production Budget for the year.
- (ii) In which quarter of the year, company expected to achieve bread-even point.

**(10 Marks)**

### Question 6

- (a) DESCRIBE any five factors which are to be considered before installing a system of cost accounting.

**(5 Marks)**

- (b) Write down any five objective of Budgetary Control System.

**(5 Marks)**

- (c) Write down assumptions of EOQ?

**(5 Marks)**

- (d) Distinguish between product cost and period cost.

**(5 Marks)**

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