

Govt. Shamsur Rahman College.
Goshairhat shariatpur.
Department of accounting.
MBA Final. Test examination -2021
Subject: Advanced cost accounting
Subject code: 312503

Time: 4 hours

Full marks 80

Part A

Answer any ten questions

1×10=10

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|---------------------------------------|------------------------------------|
| 1.(ক) ব্যয় ব্যবস্থাপনা কি? | (ছ) উপরব্যয়ের বিভাজন বলতে কি বুঝ? |
| (খ) ব্যয় একক কি? | (জ) নির্ভরণ কি? |
| (গ) উৎপাদন ব্যয় কি? | (ঝ) আধা পরিবর্তনশীল ব্যয় কি? |
| (ঘ) পরিচালন ব্যয় কি? | (ঞ) নিরাপত্তা মজুদ কি? |
| (ঙ) উৎসাহপ্রদ মজুরি কি? | (ট) EOQ কি? |
| (চ) উপরব্যয়ের পূর্বনির্ধারিত হার কি? | (ঠ) মিশ্র ব্যয় কি? |

Part-B

Answer any five questions

4×5=20

2. জব ব্যয় হিসাব ও প্রক্রিয়া ব্যয় হিসাবের মধ্যে পার্থক্য আলোচনা কর।
3. সেবাব্যয় হিসাবের বৈশিষ্ট্য আলোচনা কর।
4. কিভাবে উপরব্যয়ের হার পূর্বনির্ধারিত হয়?
5. উপরব্যয় বন্টনের পদ্ধতিগুলো আলোচনা কর।
6. Labaid hospital contains 300 beds. The average occupancy rate is 80% per month. In other words on an average 80% of the hospitals bed s are occupied by patients. At this level of occupancy, the hospital's operating costs are Tk 32 per occupied bed per day, assuming a 30 day month. This Tk 32 contains both variable

and fixed cost elements. During July, the hospital's occupancy rate was only 60%. A total of Tk 210500 in operating cost was incurred during the month.

Required; (a) Using high and low method, estimate the variable cost per occupied bed and total fixed cost per month.

(b) Express the variable and fixed cost in the form; $Y = a + bx$

7. The following data obtained from the cost records of 'X' Ltd. for the year 2019

Production 100000 units

Direct material cost TK 2500000

Direct labour cost TK 3000000

Machine hours 100000 hours

Factory overhead Tk 1500000

It is estimated that in the next year cost of direct material and direct labour will increase by 30%, factory overhead will increase by 50%, production units remain unchanged.

Required: Compute the factory overhead rates for the next year based on:

- (a) Units of production
- (b) Direct material cost
- (c) Direct labour cost

8. Moon engineering consumer 25000 units of a component per year. The order receiving cost per order Tk 4.80. while the trading cost are Tk 15.20 per order.

Further details are as follows:

Depreciation costs Tk 0.40 per unit

Interest cost Tk 0.58 per unit

Storage cost Tk 500 for 25000 units per year.

Required: (a) EOQ

(b) Cost of ordering

(c) cost of carrying

(d) total cost of inventory.

9. Calculate wages of a worker both under Halsey and Rowan premium plans from the following: Rate of wages per hour Tk 13.00, standard time for a job 20 hours, actual time taken 15 hours

Part C

Answer any five question

5×10 = 50

10 (ক) উৎপাদন ব্যয় হিসাববিজ্ঞানের কৌশলসমূহ আলোচনা কর।

(খ) উৎপাদন ব্যয় হিসাববিজ্ঞানের দুইটি মৌলিক উদ্দেশ্য হল উৎপাদন ব্যয় নির্ধারণ ও ব্যয় নিয়ন্ত্রন ব্যাখ্যা কর

11 (ক) সঠিক সময়োচিত কাঁচামাল নিয়ন্ত্রন সম্পর্কে আলোচনা কর।

(খ) উপরিব্যয়কে স্থায়ী ও পরিবর্তনশীলরূপে শ্রেণি বিন্যাসের প্রয়োজনীয়তা আলোচনা কর।

12. For the data given below :

	Mean	S.D(δ)
Production(In units)	30	12
Capacity utilization(%)	80	20
Co- efficient of correlation(y)	0.60	

Calculate :

(a) Estimate the production when the capacity utilization is 80%

(b) Estimate the capacity utilization when production is 50 units

13. Bashundhura Ltd. has two production department P and Q and two service department X and Y. The direct cost of two production departments for the month of August are given below:

	P	Q
Direct material	Tk 12000	Tk 18000
Direct labour	Tk 8000	Tk 10000

The estimated departmental overheads for the year as per departmental distribution summary are as follows:

	P	Q	X	Y
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Departmental overhead (Tk) 28000 36000 15000 18000

The overhead of the service department are distributed as under:

	P	Q	X	Y
X	40%	40%	—	20%
Y	25%	50%	25%	—

The departmental overhead rates are computed on the basis of direct labour cost. The estimated direct labour cost for the year are:

Department P Tk 50000 and Department Q Tk 70000

Required:

(a) Calculate the departmental overhead rates

(b) The cost of production department P and Q for the month of August

14. The following particulars are available from the books of a company for the year ended 2016:

Sales 150000 units

Selling price per unit Tk 20

Finished goods inventory (01-01-16) 22000 units

Finished goods inventory (31-12-16) 25000 units

Variable manufacturing cost per unit Tk 6

Fixed manufacturing cost Tk 145000

Normal capacity 145000 units

Variable marketing expense per unit Tk 1

Fixed marketing expense Tk 250000

Favorable manufacturing cost variance Tk 5500 standard costing system is used.

Required:

(a) Income statement under absorption costing and direct costing system

(b) A reconciliation statement of both profit.

15. A chemical Co. produces two main products A and B and two by products X and Y. product A , B and X require further processing. The market price per unit of the products are:

A Tk 75, B Tk 48, X Tk 9 and Y Tk 6. Profit per 25%, 20%, 10% and 15% respectively on sales.

During a period the joint cost of the product were as follows:

Materials Tk 205000, Labour Tk 77520, and overhead Tk 41300. Additional processing cost during the period were as follows:

	A	B	X
Materials	—	Tk 3500	—
Labour	Tk 47600	Tk 32400	Tk 2100
Overhead	Tk 15200	Tk 9300	Tk 900

500 units of A , 3000 units of B , 1500 units of X , 1000 units of Y were produced during the period. Administrative and selling overhead which are apportioned at 4: 2: 1: 1 respectively amounted to tk 10600

Required :

- (a) Apportioned the joint cost to the products
- (b) Prepare a comparative income statement.

16. Mr Raht has started transport business with a fleet of 10 buses. The various expenses incurred by him are given below;

Cost of each buses Tk 850000

Salary of office staff Tk 15000 P.M

Salary of garage staff Tk 20000 P.M

Drivers Salary Tk 4000 P .M (each buses)

Road tax and repairs(per buses) Tk 21000 P.a.

Insurance premium 3% of cost P.a.

The life of a buses is 300000 kms and the end of which it is estimated to be sold at Tk 100000 . A buses runs on average 5000 kms per month of which 20% it run empty. Petrol consumption is one litre. per 10 kms and cost of petrol is Tk 80 per litre.Oil and other expenses amounted to Tk 200 per 100 kms. 10% commission on freight is payable to driver in excessof his salary. Assume profit 20% on freight.

Required: Calculate the fare that should be charged per K.m.

17. Moumita company has purchased and issued material P in the following order during the month of April 2020

Apri 1. Balance in hand 500 units valued at Tk 2000

3. Purchased 400 units © Tk 4.00per unit

4. Purchased 300 units © Tk 5.00 per unit

6. Issued 550units

10. Purchased 600 units © Tk 5.00 per unit

15. Issued 800 units

20. Purchased 500 units © Tk 6.50 per unit

25. Issued 300 units.

Prepare store ledger under:

(a) FIFO and

(b) weighted average method.