PART - II

(a) XYZ Company has an option to buy any one of the two machines N or M to manufacture its unique industrial component P. Each of the M to machines have the capacity to produce same quality of component P and are almost identical except for the fact that they are being 1. manufactured by a different manufacturers. The specifications for each

Machine M: It has the capacity to produce 50,000 components of P per annum, the fixed costs being ₹ 1,50,000 and could generate a profit of ₹ 2,25,000 on the sale of all the components produced.

Machine N: It is also having the equal capacity to produce same number of components as that of Machine M per annum and all the components thus produced could be sold in the open market without any difficulty. Fixed cost of Machine N is ₹ 60,000 less than that of Machine M and yield a profit of ₹ 1,60,000 by selling all the components that are produced.

The selling price of each component of P is ₹ 100.

Required:

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- Calculate break even sales in value for each machine.
- Calculate sales levels in units where both the machines are (i) and by and about (ii) equally profitable. Whish By

ALC2

(b) PQR Ltd. manufactures a product in batches of 2,000 units. The following costs are incurred for each batch:

Particulars	Amount (in ₹)	
Direct Material Cost per Batch	2,40,000	
Direct Labour Cost per Batch	1,65,000	
Overhead Absorption Rate (variable)	120 per machine hour	
Expected Rejection Rate	3%	
Scrap Value per Rejected Unit	75	

Other Information:

Particulars	Details	
Selling Price per Good Unit	₹ 250	
Total Available Machine Hours per month	3,000 hours	
Fixed Overheads per Month	₹ 1,25,000	
Batches Manufactured per Month	10 batches	

Required:

- (i) Calculate contribution per unit of good units after adjusting rejected units.
- (ii) Calculate the company's total monthly profit.

3

The Cost Accountant of a Manufacturing concern has given the

(c)

The Cook following details in respect of a raw material X: following between Minimum lead time and Maximum lead time is

Average Lead time to procure the Raw Material X is 7 days.

Reorder Level 90,000 units

Reorder Quantity

1,00,000 units

Minimum Stock Level

1,90,000 units

Maximum Stock Level

Required to Calculate:

Maximum Consumption per day 36 60 Vints

(i)

Minimum Consumption per day

The following information relates to a manufacturing concern A Ltd. 2. for the year ended 31st March, 2024.

Particulars	As on 1 st April, 2023	As on 31 st March, 2024
Raw Material (in ₹)	7 3,40,000	1,80,000
Work in Progress (in ₹)	5,50,000	3,50,000

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Particulars

Raw Material Purchased

[Inclusive of GST @18% (Ineligible for ITC)] 8,00,000

(In ₹)

Amount

Packaging Cost (primary) NFC me Add 3,00,000

Fee Paid to Independent Directors

Fee Paid to Independent Directors Aoyy 5,00,000

Production bonus paid to factory workers

10% of Wages paid
to factory workers

Job charges paid to job workers 9 Expusy 41,000

Salary paid to Supervisor Com 6.17.900

Salary paid to Supervisor Forg 6,17,900

Wages paid to factory workers Dwages 6,30,000

Salary paid to Production Control Manager (700) 7,20,000

Sale of Scrap generated during Manufacturing C Se 50,000

Selling Overheads per unit Selling Overheads 2

Salary paid to General Manager of 12,40,000

Expenses Paid for Quality Control check 4,30,000

activities Q C Heldted 10 Produ

Particulars	Cost Price	WDV as on 1 st April, 2023 (₹)	Depreciation Rate	Cost Der
Factory Building	25,00,000	21,87,000	10%	2% of Con-
Plant and Machinery	15,00,000	11,56,000	15%	2% of Con
Office Building	40,00,000	36,00,000	100/	Price Nil

Additional information:

- Depreciation is charged on the written down value method. (i)
- Stock of finished goods as on 1st April, 2023 was 80,000 units (ii) having a total cost of ₹ 8,00,000. The entire stock of opening yyor finished goods is sold during the year, closing stock is 70,000 units. During the period, 4,50,000 units were sold. Produc
- (iii) A Ltd. wants a profit of 20% on Total Sales.

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Required:

Prepare a Cost statement showing the various elements of cost and profit earned for the year ended 31st March, 2024.

A skilled worker has assigned a work. The relevant data is given as follows:

Time rate per hour

₹ 25

Time allowed

9 hours

Time taken

6 hours

The worker has given an option to choose either Halsey (50% plan) or Rowan plan. \$187.5

You are required to calculate earnings under both plans and which plan is more beneficial for a worker.

ALC₂

A chemical compound manufactured through two processes namely 2+2+2 3. Process X and Process Y. Process Y is dependent on the output +2=8 generated by Process X and the semi-finished chemical compound received from Process X shall be mixed up with further materials in Process Y. The details of costs and other particulars for each process are given as follows:

		contains for each process
Direct Material	Process X 1,000 kgs @ ₹ 50 por	Process Y
Direct Labour	kg ₹ 35,000	700 kgs @ ₹ 90 per kg
Process Plant time		₹ 25,000
Expected output	200 hrs @ ₹ 60/hr 75% of input	120 hrs @₹ 80/hr
Actual output kgs		80% of input
Realizable value of	* Well, 6, 11 . 4, 1	1150
Normal Loss	₹ 8 per kg	₹ 5 per kg
Notes: - Jes min month		- 15 Trans. 22 Trans.

- The departmental overhead for the period was ₹ 30,000 and is absorbed in each process on direct labour cost.
- Process plant time represents the attributable plant run time with (ii) respect to each process and is a part of direct process cost.
- Assume no finished stock and work in progress either at the (iii) beginning and end of the period.

Required:

Prepare Process X Account, Process Y Account, Normal Loss Account and Abnormal Gain Account.

ALC₂

P.T.O.

SW Limited manufactures Lenin bed covers. The present cost data are

(b)

Variable Cost of manufacturing per unit as below:

: ₹ 200

Variable cost of selling and distribution per unit: ₹ 100

Fixed costs

:₹16,00,000

Selling price per unit

:₹800

Expected Profit for the coming year

: ₹ 8,00,000

The management could sense a stage of stagnation/deterioration in future sales with the new entrant RK Enterprises. The SW limited has approached to one marketing consulting firm for the study of cost volume profit analysis. The firm suggested three alternatives to fuel the sales growth by tinkering with the selling price.

Alternatives	Reduce selling	Projected increase in sales
	price %	(units) %
		(from the sales level that would generate ₹ 8,00,000 profit)
1	10.00	15
2	12.50	20
3	15.00	25

Required:

Calculate the effect on profits under each alternative and recommend which alternative is most likely to be adopted to get the maximum

profit.

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ALC₂

(a) XYZ Transport is running a bus between town A and town B which are 25 kms apart. The bus will make 4 round trips every day carrying on an average 30 passengers on each trip. The bus costs the company a carrying per annum and the on an average 5.5.

sum of ₹ 5,00,000. It has been insured at 2% per annum and the annual to ₹ 2,000 and the garage rent is ₹ 500 m. tax will amount to ₹ 2,000 and the garage rent is ₹ 500 per month. Annual repairs will be ₹ 8,000 and the bus is likely to last for 5 years. Annual repulse.

The driver's salary will be ₹ 15,000 per month and the conductor's salary will be ₹ 12,000 per month in addition to 10% of the takings as commission (to be shared by the driver and conductor equally). Cost of stationery will be ₹ 800 per month. Manager-cum-accountant's salary is ₹ 35,000 per month. Petrol and Oil will be ₹ 1,000 per 100 km. Assuming 15% profit on takings. Depreciation will be charged at

4.

You are required to calculate the bus fare to be charged for per passenger kilometer. The bus will run on an average 25 days in a month.

(b) LMN Foods is a manufacturer of organic snacks. For the year ending 2023, the company compiled the following financial data:

Item	Amount (in ₹)
Opening inventory of raw materials	2,00,000
Closing inventory of raw materials	2,50,000
Raw material purchases	12,00,000
Labour costs	5,00,000
Production overheads	2,50,000
Marketing and distribution expenses	1,52,000

ALC₂

In 2024, LMN Foods accepted a request for a bulk supply of their best-selling snacks. The estimated costs for fulfilling this order are as d) follows:

- Estimated raw material cost: ₹ 3,00,000
- Estimated labour cost: ₹ 1,50,000
- Packaging and transportation costs: ₹ 49,400

LMN Foods allocates production overhead based on direct labour costs and marketing and distribution expenses as a percentage of the total production cost based on the previous year's data.

Required:

- (i) Calculate the overhead recovery rates for 2023 based on actual costs.
- (ii) Prepare a comprehensive cost statement for the bulk order and determine the Sales required for achieving a profit margin of 20% on the final sales amount.
- 5. (a) The following information has been provided by a company:

Number of units produced and sold: 7,000

Standard labour rate per hour: ₹9

Actual hours worked: 17,820 hours

Labour efficiency: 106.8%

Labour rate variance: ₹ 71,280 (A)

You are required to calculate:

- (i) Actual labour rate per hour
- (ii) Standard hours required for 7,000 units
- (iii) Labour Efficiency variance
- (iv) Standard labour cost per unit
- (v) Actual labour cost per unit

ALC2

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Journalise the following transactions assuming that cost and financial (b) accounts are integrated:

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	70	
	100	
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Particulars	Amount
Wages paid (200)	(in ₹)
Wages paid (20% indirect)	2,00,000
Selling and Distribution Overheads incurred	50,000
Deficiency found in stock of Raw Material (Normal)	80,000
Factory Overheads (Under Absorbed)	60,000

Define spoiled work and defective work and discuss the treatment of (c) defective work in the following circumstances:

Circumstances	Treatment
Where a percentage of defective work is allowed in a	
particular batch as it cannot be avoided.	
Where the defect is due to bad workmanship.	
Where defect is due to the Inspection Department	
wrongly accepting incoming material of poor quality.	

Explain the steps involved in procedure for reconciliation of Cost & 3+2 (a) where circumstances explain the Also accounts. Financial reconciliation statement can be avoided.

P.T.O.