11.54

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(b) New SP per unit = ₹ 30 less 5%

₹ 28.50

(-) V.Cost per unit (excluding salesmen commission)

New Contribution per unit

Fixed cost ₹ 3,60,000 + ₹ 90,000

₹ 4,50,000

BEP (in units) =

Fixed Cost

Contribution / unit

Rs.4,50,000

₹ 9

50,000 pairs of chappals.

(c) New SP per unit (₹ 30 plus 5%)

(-) V. Cost per unit (₹ 21 + ₹ 0.50)

Contribution per unit

₹ 31.50 ₹ 21.50 10

₹ 1<u>9.50</u>

₹ 9 .

BEP (in units) =

Fixed Cost

Contribution per unit

₹3,60,000

₹10

36,000 pairs of chappals

Answer to Q. No.56:

New SP per unit

₹ 50 less 10%

= ₹45

Variable Cost per unit

Materials

₹ 20

Manufacturing cost ₹ 15

₹ <u>35</u>

Hence, contribution per unit :

= SP / Unit - VC / Unit

=₹45 -₹35 =₹10

Units to be sold to earn profit of ₹ 5,00,000 =

Fixed Cost +Desired Profit

Contribution per unit

= ₹ 3,20,000 units

(ii) Fixed Cost

₹ 27,00,000 + ₹ 3,00,000

₹ 30,00,000

SP per unit

₹ 50 (at present)

Variable cost per unit = ₹35

Hence, contribution per unit is ₹ 15

Units to be sold for profit of ₹ 5,00,000

Fixed Cost + Desired Profit

Contribution per unit

₹ 30,00,000 + ₹ 5,00,000

₹15

2,33,333 units.

Answer to Q. No.57.

Existing SP per unit

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(-) Variable cost per unit

1. Material

120

2. Labour

3. Overheads

30

Contribution per unit 12

Existing P/V Ratio = $\frac{C}{S} \times 100 = \frac{108}{270} \times 100 = 40\%$

₹ 162 ₹ 108

₹ 270

11.55

SP per unit

(-) Variable cost per unit

₹x (assume)

1. Materials (₹ 120 plus 7.5%) 2. Labour (₹ 30 plus 10%)

₹ 129

3. Overheads (₹ 12 plus 5%)

₹ 33

₹ 174.60

Contribution per unit

₹ 12.6

₹x-₹174.60

(a) We are given that Existing P / V ratio of 40% is to be maintained in future.

Hence, P / V Ratio =
$$\frac{\text{Contribution}}{\text{Sales}} \times 100$$
$$40 = \frac{x - 174.60}{x} \times 100$$

Solving, we get x = 291

Hence, SP in the forthcoming year should be ₹ 291 if existing P/V ratio of 40% is to be maintained.

(b) Future Desired Profit equals to Present Actual Profit which is computed below :

Present Sales

₹ 40,50,000

(-) Present V. Cost (60% of Sales)

₹ 24,30,000

Present Contribution

₹ 16,20,000

(-) Fixed Cost

₹ 14,00,000

Profit

₹ 2,20,000

Hence, units to be sold in future to maintain present profit is computed below :

17,422 units.

Answer to Q. No.58

Evaluation of existing situation ₹ 40 Selling Price per unit

(-) Variable cost per unit

₹ 16

Material Conversion cost

₹ 12

₹ <u>32</u>

Dealer's Margin

₹ 4

₹_8

Contribution per unit

₹7,20,000

Total contribution

11.56

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(90,000 units x ₹ 8 per unit)

(-) Fixed Cost

₹ 5,00,000

Profit

₹ 2,20,000

(a) If SP per unit reduces by 5%, it becomes ₹ 40 less 5% i.e. ₹ 38. New Variable cost per unit is:

Materials

₹ 16

→ Conversion Cost

₹ 12

→ Dealer's Margin

₹ 3.80

(10% of Selling Price)

₹ 31.80

Contribution / unit = SP / unit - VC / unit

Hence, unis to be sold to maintain the present level of profit is computed below :

Contribution per unit

Rs.6.20

1,16,129 units.

(b) At present, the dealer's margin is 10% of selling price. If it is increased by 25%, it will become 12.5% of selling price, i.e. 12.5% of ₹ 40 = ₹ 5.

Hence, Variable cost becomes:

Materials

₹ 16

Conversion Cost

₹ 12

Dealer's Margin

Contribution per unit

SP / Unit - VC / Unit

₹40 - ₹33 = ₹7

Units to be sold to maintain the present profit is computed below :

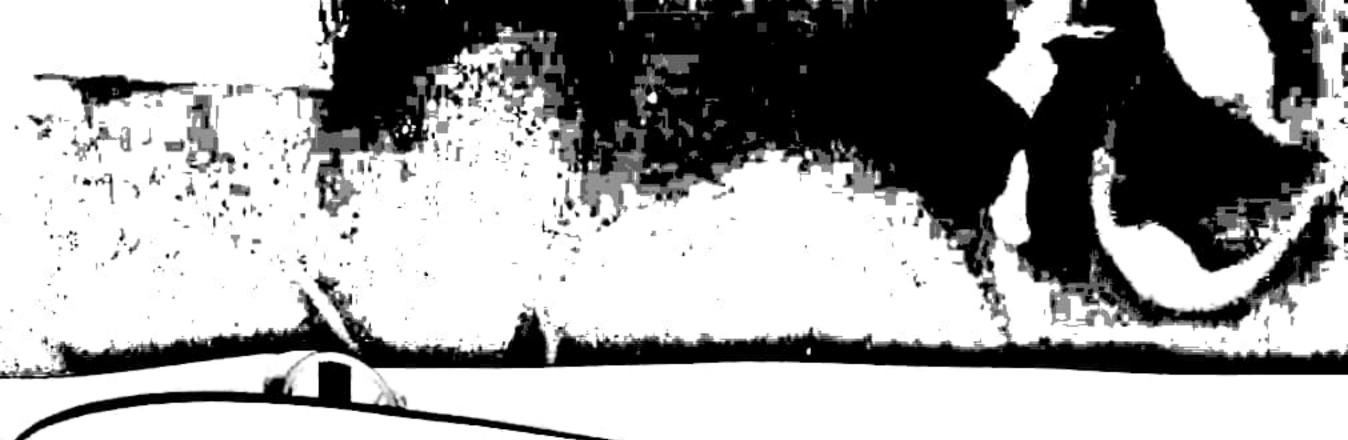
Fixed Cost + Desired Profit

Contribution per unit

₹5,00,000 + ₹2,20,000

₹7

1,02,857 units.



Answer to Q. No.59.

11.57

₹20 -₹15

CAR. K. MEHTA

(a) Units to be sold for profit of 10% of sales = $\frac{\text{Fixed Cost +Desired Profit}}{\text{Contribution / Unit}}$ $x \text{ units} = \frac{6,30,000 + \frac{10}{100} (₹20x)}{}$

Solving, we get x = 2,10,000 units

Hence, at sales level of 2,10,000 units, profit of 10% of sales can be achieved.

(b) BEP (in units) = Fixed Cost SP / Unit - VC / Unit

1,20,000 units = ₹.5,30,000 SP/Unit -₹15

Solving, we get SP / Unit = ₹ 20.25

(c) P/V ratio = $\frac{\text{Contribution}}{\text{Sales}} \times 100$

= ₹5 ×100 = 25%

Margin of Safety = $\frac{Profit}{P / V ratio}$

= \frac{₹60,000}{25\%} = ₹2,40,000

12.1

CA R. K. MEHTA

JOB AND BATCH COSTING

Q.1. Given below are the cost details for the organisation during 2013: Direct Labour ₹ 5,00,000 Direct Factory Expenses WIP at the beginning ₹ 10,00,000 ₹ 3,00,000 Factory Overheads ₹ 4,00,000 ₹ 5,00,000 WIP at the end Selling Expenses ₹ 2,00,000 ₹ 3,00,000 Office & Admn. overheads Sales ₹35,00,000 ₹ 2,00,000

During March, 2014 there is an enquiry for a job requiring Direct Materials Cost of ₹ 5,000, Direct Labour Cost of ₹ 10,000 and Direct Factory Expenses of ₹ 1,000 Factory overheads are recovered as percentage to prime cost, office & admn., overheads as percentage to works cost and selling and distribution overheads as percentage to cost of production. However it is felt that this year there is higher office and administration costs to the extent of 10% and selling cost have gone up by about 15%. What should be the quotation for the job if the same rate of profit on sale is to be maintained as during 2013.

Q.2. From the records of a manufacturing company, the following budgeted details are available:

D'		₹	₹
Direct Materials			1,99,000
Direct Wages :			
Machine shop	(12,000 hours)	63,000	
Assembly shop	(10,000 hours)	48,000	1,11,000
Work Overhead:			
Machine shop		88,200	
Assembly shop		<u>51,800</u>	1,40,000
Administrative Overhea	ad -		90,000
			1,43,100
Selling Overhead			2. 1

You are required to:

i. Prepare a schedule of overhead rates from the figures available stating the basis of overhead recovery rates used under the given circumstances.

ii. Work out a cost estimate for the following job based on overhead computed.

Machine shop 30 hours Direct Labour 25 kg. @ ₹ 16.80 per kg. Assembly shop 42 hours Direct Material: 15kg @ ₹ 20.00 per kg

The following budgeted cost information is available from the records of a manufacturing

Q.3. concern for a particular year: 61.20 Direct Material 6.00 Direct Wages - Rolling Shop (1,20,000 hours) 14.40 - Milling Shop (2,40,000 hours) Works Overheads 9.60 28.80 Rolling Shop 24.00 Milling Shop Administration overheads 43.20

The works overheads are recovered on the basis of labour hours, the administration overheads on the basis of works cost and selling overheads on the basis of cost of production.

You are required to -

(1) Prepare annual cost statement so as to compute the budgeted cost of sales.

(2) Compute Overhead Recovery rates.

(3) Compute total cost of a job which requires the following -

(a) Direct Material ₹ 7,560.

(b) Labour Cost

Rolling Shop 40 hours @ ₹ 6 per hour.

Milling Shop 70 hours @ ₹ 5 per hour.

In an engineering company, the factory overheads are recovered on fixed percentage basis on direct wages and administration overheads are absorbed on fixed percentage basis on factory cost.

The company has furnished the following data relating to two jobs undertaken by it in a period :

ompany has fulfillshed the following device	Job 101	300 102
Direct Material Direct Wages Selling Price Profit percentage on Total Cost	₹ 54,000 ₹ 42,000 ₹ 1,66,650 10%	₹ 37,500 ₹ 30,000 ₹ 1,28,250 20%

Required:

Computation of percentage recovery rates of factory and administration overheads.

(ii) Calculation of amount of factory overheads, administration overheads and profit for each of the two jobs.

(iii) Using the above recovery rates, fix the selling price of Job 103. The additional data

being: ₹ 24,000 Direct Material ₹ 20,000 Direct Wages 12 1/2 % Profit percentage on selling price

Q.5. The following information for the year ended December 31st, 2013 is obtained from the books and records of a factory:

	Completed Jobs ₹	Work-in-progress ₹
Raw materials supplied from stores	90,000	30,000
Wages	1,00,000	40,000
Chargeable expenses	10,000	4,000
Materials transferred to work-in-progress	2,000	2,000
Materials returned to stores	1,000	

Factory overhead is 80% of wages and office overhead 25% of factory cost.

The price of the executed contracts during 20131 was ₹ 4,10,000.

Prepare (i) Consolidated Completed Jobs Account showing the profit made or loss incurred, and also (ii) Consolidated Work-in-progress Account.

Component 893-X is made entirely in cost centre 476. Material cost is 6 paise per component and each component takes 10 minutes to produce. The machine operator is paid 72 paise per hour and the machine hour rate is ₹ 1.50. The setting up of the machine to produce component 893-X takes 2 hours 20 minutes. - overlinger in the ext.

On the basis of this information, prepare Cost Sheet showing the production and setting up cost, both in total and per component, assuming a batch of (a) 10 components, (b) 100 components, and (c) 1,000 components is produced.

Q.7. Units to be produced in year are 24,000. The set-up cost of one batch is ₹ 324. The inventory carrying cost per unit per annum is ₹ 31.20. Compute Economic Batch Quantity.

12.3

CA R. K. MEHTA

Important Theoretical Questions

Q.1. Define Job Costing? Explain, in brief, the Job Costing procedure?

Ans.: JOB COSTING: Job Costing is a method of ascertaining cost in those industries in which goods are manufactured or services rendered against specific orders from customers.

(i) Production is against customers' order and not for stock.

(ii) Each job has its own characteristics and needs special treatment. (iii) Each job undertaken is a cost unit.

(iv) A separate job cost sheet is prepared for each job to ascertain cost and profit/loss on

Examples of industries in which Job Costing is applicable are printing press, repair workshops, general engineering companies, interior decoration, etc.

JOB COSTING PROCEDURE:

1. Job Order Number: Since job costing accumulates costs by specific jobs, a number must be assigned to each job so that each job may be identified.

2. Production Order: It is a written order to the foreman to proceed with a job. It gives the foreman instructions relating to the job and also authorizes him to start the work.

Job Cost Sheet: Costs for each job are accumulated on job cost sheets.

Q.2. Define Batch Costing ? Explain, in brief the batch costing procedure ?

BATCH COSTING: This is a variation of job costing. While job costing is concerned with Ans.: costing of jobs made to a customer's particular requirements, batch costing is used when production involves limited repetition work and a definite number of articles are manufactured in each batch to be held in stock for sale to customers generally. Thus, a batch is cost unit consisting of a group of identical items.

Batch Costing is applied in the manufacture of shoes, toys, ready-made garments, component parts of cars, radios, watches, etc.

BATCH COSTING PROCEDURE: Each batch is given a batch number in the same way a job is given a job number. Direct materials, direct labour and direct expenses identified with the batch are recorded on the Batch Cost Card. Overheads are absorbed on one of the bases already explained as is done in the Job Costing. When a batch is completed, the cost is totaled and the total cost is divided by the quantity produced to arrive at the cost per unit or per dozen, etc., as required.

Q.3. Write a note on Economic Batch Quantity.

Industries using batch costing have to determine the economic batch quantity. The Ans. Economic Batch Quantity (EBQ). economic batch quantity may be defined as the optimum quantity in a batch of production with minimum cost with the purpose of maximising profits.

While determining economic batch quantity, two types of cost are considered.

a) Setting up Cost: This is the cost of setting the machine and tools for production of a particular batch. This is of a fixed nature. Therefore, when the size of the batch is large, b) Carrying Cost: This includes the cost of storage, interest on capital invested, etc.

Larger size of a batch leads to higher carrying cost. A simple formula for determining the economic batch quantity is given below:

Economic Batch Quantity = $\sqrt{\frac{2.U.S.}{C}}$ No. of units to be produced in a year

Set up cost per batch Carrying cost per unit p.a. Where U

180

REVISIONARY PROBLEMS

C.1. The following direct costs were incurred on Job No.415 of Standard Radio Company.

Materials

₹ 4,010

Wages:

Deptt.

A — 60 hours @ ₹ 3 per hr.

B — 40 hours @ ₹ 2 per hr.

C — 20 hours @ ₹ 5 per hr.

Overhead expenses for these three departments were estimated as follows:

Variable overheads: Deptt.

A ₹ 5,000 for 5,000 labour hours

B ₹ 3,000 for 1,500

C₹ 2000 for 500

Fixed overheads: Estimated at ₹ 20,000 for 10,000 normal working hours. You are required to calculate the cost of Job 415 and calculate the price to give profit of

25% on selling price.

[Ans: ₹6,440]

Q.2. A factory uses job costing. The following data are obtained from its books for the year

31.3.2013. 90,000 75,000 Direct materials 52,500 Direct wages Selling and distribution overheads 42,000 Administration overheads 45,000 Factory overheads 60,900

Prepare a Job Cost Sheet indicating the Prime cost, Works cost, Production cost, (a) Cost of sales and Sales value.

In 2014, the factory receives an order for a number of jobs. It is estimated that direct materials required will be ₹ 1,20,000 and direct labour will cost ₹ 75,000. What should (b) be the price for these jobs if factory intends to earn the same rate of profit on sales assuming that the selling and distribution overheads have gone up by 15%? The factory recovers factory overheads as a percentage of direct wages and administration and selling and distribution overheads as a percentage of works cost, based on cost rates prevailing in the previous year.

[Ans : (a) ₹3,65,400 (Sales), (b) ₹4,28,400 (Sales)

Q.3. The following costs were incurred for a job during the year ending 31-12-2013

₹		
3,000	Administrative Overheads	3,000 4,000 3,000
	3,000	 ₹ 5,000 Factory Overheads 3,000 Administrative Overheads 2,000 Selling and Distribution Overheads

Selling price for the above Job was ₹ 25,000. You are required to prepare a statement showing the profit earned for the year 2013 from the Job and an estimated price of a Job which is to be executed in the year 2014. Materials, wages and chargeable expenses will be ₹ 8,000, ₹ .10,000 and ₹ 2,000 respectively for the Job. The various overheads will be recovered on the following basis while calculating the estimated price.

Factory overheads as a percentage of direct wages. (a)

Administration and selling and distribution overheads a percentage of factory cost. (b)

[Ans: ₹.57,692]

Q.4. In respect of a factory, the following particulars have been extracted for the year 2013. CAR. K. MEHTA

Factory overheads 6,00,000 Administration charges 5,00,000 Selling charges 3,00,000 Distribution charges 3,36,000 Profit 2,24,000

A work order has to be executed in 2014 and the estimated expenses are : Materials Assuming that in 2014 the rate of factory overheads has gone up by 20%, distribution charges have gone down by 10% and selling and administration charges have gone up each by 15%, at what price should the product be sold so as to earn the same rate of profit

Factory overheads are based on wages and administration, selling and distribution

[Ans: ₹30,875]

Q.5. ZAB Limited undertakes to supply 1,000 units of a component per month for the months of January, February and March. Every month a batch order is opened against which material and labour costs are booked at a actuals. Overheads are levied at a rate per labour hour. The selling price is contracted at ₹ 15 per unit.

From the following data, present the profit per unit of each batch order and overall position of the order for the 3,000 units.

Month	Batch Output (Numbers)	Material Cost ₹	Labour Cost ₹
January	1,250	6,250	2,500
February	1,500	9,000	3,000
March	1,000	5,000	2,000

Labour is paid at the rate of ₹ 2 per hour. The other details are:

Month	Overheads Total L ₹ Hot	and the bear
	12,000 4,0	00
January	9,000 4,5	00
February	15,000 5,0	00
March	0001	

[Ans : Profit per unit is ₹5 and total profit is ₹15,000]

Q.6. A jobbing factory has undertaking to supply 200 pieces of a component per month for the ensuing six months. Every month a batch order is opened against which material and labour hours are booked at actuals. Overheads are levied at a rate per labour hour. The selling price contracted for is ₹ 8 per piece. From the following data present the cost and profit per piece of each batch order and overall position of the order of 1,200 pieces.

profit per piece of cook	Batch	Material cost	Direct wages ₹	Direct labour
Month	output units 210	650	120 140	240 280
January February March April	200 220 180 200	640 680 630 700 720	150 140 150 160	280 270 300 320
May June	220			

12.6

CA R. K. MEHTA

The other details are:

Month	Overhead expenses	Direct labour hours
January	12,000	4,800
February	10,560	4,400
March	12,000	5,000
April	10,580	4,600
May	13,000	5,000
June	12.000	4,800

[Ans :Total Profit on 1,200 units = ₹792]

Q.7. As a cost accountant you find that the selling price of a product has been calculated as follows:

Materials ₹ 24.00

Direct Wages: 20 hours at

Re.1.00 per hour 20.00

(Dept. 1 - 10 hrs.

Dept.2-6 hrs.

Dept.3 -4 hrs.)

Prime Cost 44.00

Plus 50% on the prime cost 22.00 66.00

An analysis of the previous year's profit and loss account shows the following:

Materials	₹ 35,000	Factory overheads	₹
Direct Wages:		Dept. I	5,000
Dept. I	5,000	Dept. II	3,000
Dept.II	6,000	Dept. III	3,000
Dept. III	4,000	Selling & Distribution Overheads	12.200

You are required to (a) draw up a job cost sheet; (b) calculate and enter the revised cost using the previous year's figures as a basis; and (c) add to the total job cost 10% for profit and given the final selling price.



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12.7

Solutions to Revisionary Problems

CAR. K. MEHTA

Answer to Q. No. 1:

Job Cost Sheet

Direct Materials			Job No.415
~	A 60 L	Amount Rs	Amount ₹
	A — 60 hrs. ×₹3 180		4,010
	- 4U nre v = a		
*Variable Overheads	C — 20 hrs. x ₹ 5 100	112	
Deptt.		360	
Вери.	A — 60 hrs. @ ₹ 1 60		
	- 40 nrs (m > 2 no		
	U — ZU Nrg (a) ₹ 4 an		
Fixed Overheads: 12	o riouis (Q) ₹2	220	0.40
	Total Cost		240
	Profit — 25% on Selling Price		4,830
	Selling Price		<u>1,610</u> 6,440

*Computation of overhead rates

Variable overheads per labour hour		Overhead	
			Labour hours
Department	Α	=	$\frac{\text{Rs.5,000}}{5,000} = ₹ 1 \text{ per hour}$
	В	=	Rs.3,000 1,500 hrs. = ₹ 2 per hour
	С	=	Rs.2,000 = ₹ 4 per hour

Answer to Q. No. 2:	Job Cost Sheet for the year ended 31 st Dec., 2013	
Particulars		90,000
Direct Materials		75,000
Directiviste	Prime Cost	1,65,000

Direct wages	Prime Cost	1,65,000 45,000
Factory overheads	Works Cost	2,10,000 42,000
Administrative overheads	Cost of Production	2,52,000 52,000
Selling and distribution overheads	Cost of Sales Profit Sales Value	3,04,500 <u>60,900</u> 3,65,400

$$5 = \frac{45,000}{5000} \times 100 = 60\%$$

1. % of factory overheads to direct wages $=\frac{45,000}{75,000} \times 100 = 60\%$

% of administration overheads to works cost = 42,000

Selling and distribution overheads = ₹ 52,500 + 15% = ₹ 60,375 % to works cost = $\frac{60.375}{2,10,000} \times 100 = 28.75\%$

4. Profit percentage of cost = 3,04,500

Statement	of estimated	Cost and	Price of	Jobs in 2014
Otal Cilibilit	vi esiiinatea	COSL BIIU	LUCE OF	2003 111 201

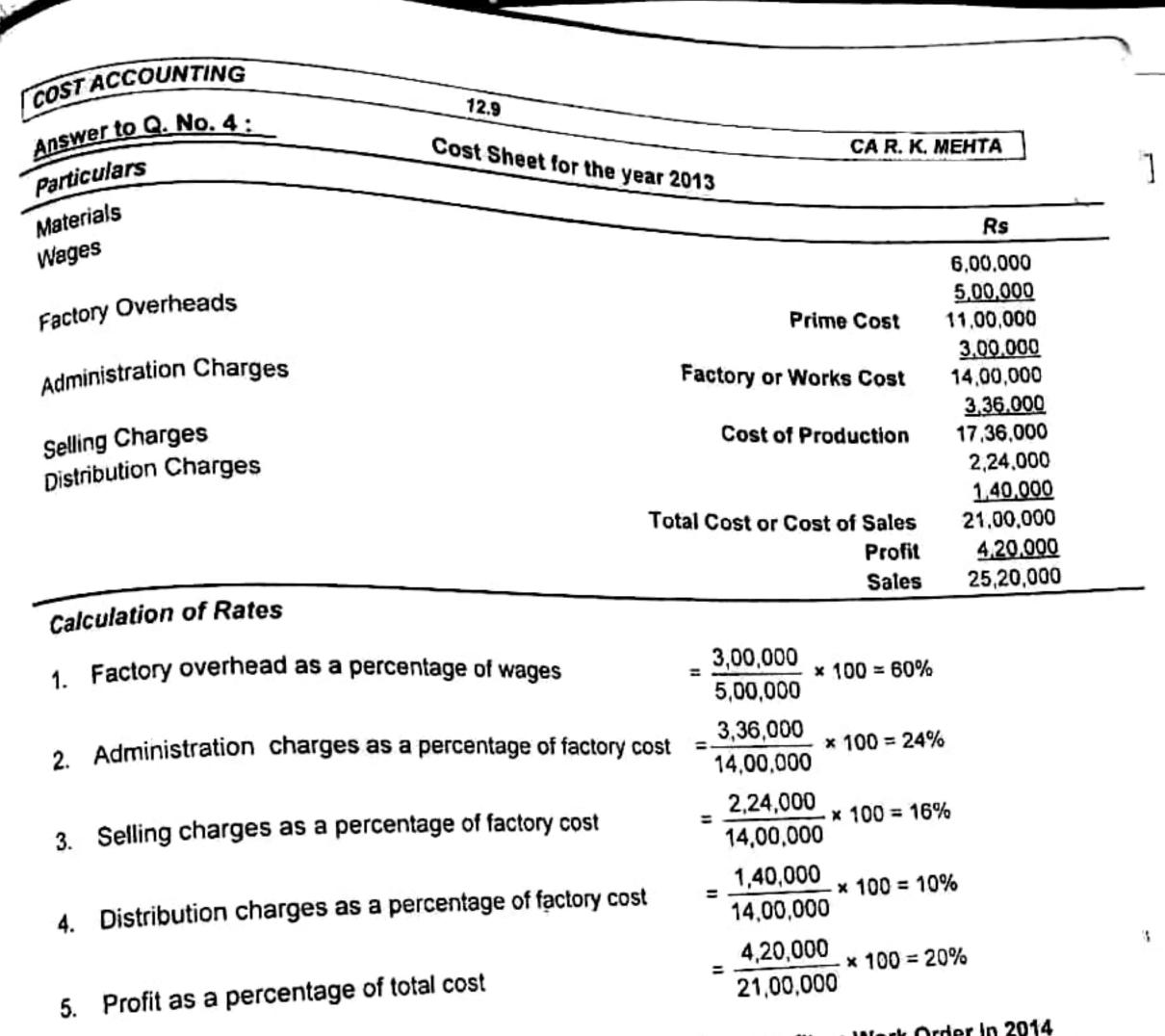
Particulars		2
Direct Materials		1,20,000
Direct wages	Prime Cost	75,000 1,95,000
Factory overheads (60% of direct labour)	Works Cost	45,000 2,40,000
Administrative Overheads (20% of works cost)	Cost of Production	48,000 2,88,000
Selling and distribution overheads (28.75% of works cost)	Total Cost Profit (20% of total cost) Selling Price	69,000 3,57,000 <u>71,400</u> 4,28,400

Answer to Q. No. 3:	Job Cost Sheet for the year ended 31" Dec., 2013	
		₹
Particulars		5,000
Direct Materials		3,000
Direct Wages		
Chargeable Expenses	Prime Cost	<u>2,000</u> 10,000
Factoria Consideration		<u>3.00</u> 0
Factory Overheads	Factory Cost	<u>3,000</u> 13,000
A. J. J. J. J. J. J. J. C.		4,000
Administration Overhead	Cost of Production	<u>4,000</u> 17,000
o w		3,000
Selling and Distribution Overhead	Cost of Sales	20,000
	- Profit	5,000
	Selling Price	25,000

- Factory overhead as a percentage of direct wages
 - = Factory overhead × 100
 Direct wages
- $= \frac{3,00,000}{3,000} \times 100 = 100\%$
- 2. Admn. Overhead as a percentage of factory cost
 - = Admn. overhead ×100
 Factory cost
- $=\frac{4,000}{13,000}\times100=30.77\%$
- 3. Selling and dist. Overhead as a percentage of factory cost
 - = Selling and dist. overhead × 100
 Factory cost
- $=\frac{3,000}{13,000}\times100=23.08\%$
- 5. Profit as percentage of cost of sales
 - $= \frac{\text{Profit}}{\text{Cost of sales}} \times 100$
- $= \times \frac{5,000}{20,000}$ 100 = 25%

Job Cost Sheet (Estimated price of Job in 2014)

Particulars		₹	
Direct Materials		8,000	
Direct Wages		10,000	
Chargeable Expenses		2,000	
	Prime Cost	20,000	
Factory overhead (100% of direct wages)		10,000	
	Factory Cost	30,000	
Admn. overhead (30.77% of factory cost)		9,231	
	Cost of Production	39,231	
Selling and dist. Overhead (23.08% of factory cost)		6,923	
	Cost of Sales	46,154	
	Profit	11,538	
	Selling Price		57,692



Statement showing estimated Cost and Profit on Work Order in 2014

Statement showing estimated cost		₹
Ottato		8,000
Particulars		5,,000
Materials	Prime Cost	13,,000
ages	Filmo	3,600
Factory Overheads (60% of wages, increased by 20%, i.e., 72%)	Factory Cost	16,600
	Cost of Production	<u>4,581</u> 21,181
(24% of factory cost, increase		3,054
Selling Charges (16% of factory cost, increased by 15%, i.e., 18.4%) Distribution Charges (10% of factory cost, decreased by 10%, i.e., 9%)	Cost of Sales	1,494 25,729 <u>5,146</u> 30,875
	Price to be quoted	
Profit (20% on cost of sales)		



	7						CAR.K.	MEHTA
COST ACCOUNTING	12.							
Answer to Q. No. 5 :	tater	nent of	Cost and	Profit o	of Eac	n Batch	Mar.	Total
7.11.011.01.01				Ji	211.	,	1.000	3,750
(a) Batch Output (Nos.)				1,2	50	1,500	7	?
(a) Daton Calpar (1103.)					₹	2 500	15,000	56,250
(b) Sales Value (@ ₹ 15 per unit)				18,7	50 2	2,500	10,10	
Costs:						9,000	5,000	20,250
Material					250	3.000	2,000	7,500
Wages				7	00	3,000	3,000	9,750
*Overheads					50	15,000	10,000	37,500
(c) Total Cost				12,5		7,500	5,000	18,750
(d) Profit per batch (b) - (c)				0,2	250 10	10	10	
(e) Cost per unit (c) + (a)					5	5	5	
				- 2 000 1				
(f) Profit per unit (d) + (a) Overall Po	sitio	n of the	order 10	3,000	711110			₹
								45,000
Sales Value (3,000 units × ₹ 15)								30,000
Less: Total Cost (3,000 units × ₹ 10)								15,000
Profit								
*Working Notes Overheads charged are calculated as for	ollow	s: Jan.		Feb).		Mar	ch
(i) Labour Hours:				* *	000		₹2	,000
Labour cost		₹ 2,500		< 3	3,000			
Labour rate per hour		2			2		A .	2
COROLI, I SITE PAR 1		= 1,250		=1,	500		=1,0	000
(ii) Overhead per hour:								
Total overheads _		₹ 12,00	0	₹.9	000,6		₹1	5,000
=		4,000	-	4	500		5	000
Total labour hours		=₹3		= ₹			=₹	
(iii) Ourselessed for botch (i) v (ii)		₹3,750			.000			000
(iii) Overhead for batch (i) × (ii)	,							
Answer to Q. No. 6:		Batch					nding 30	
		Jan.	Feb.	Mar.	Apr			
Batch output (units)	_	210	200	220	18	\$7	00 220	
Sales value @ ₹ .8	₹	1,680	1,600	1,760	1,44			_
Material cost	₹	650	640	680	63		00 720	4,020
Direct wages	₹	120	140	150	14	0 1	50 160	860
*Overhead expenses	₹	600	672	672	62	1 78	80 800	4,145
Total cost	₹	1,370	1,452	1,502	1,39	1 1,6	30 1,680	9,025
Profit per batch	₹	310	148	258	.4	9 -	30 80	
Total cost per unit	₹	6.52	7.26	6.83	7.7	3 8.	15 7.6	
Profit per unit	₹	1.48	0.74	1.17	0.2	7 -0.		
Overall position of the order for 1,200) uni	ts.						
Sales values of 1,200 unit @ ₹ 8/- per u	nit						=	
Total cost of 1,200 units @ 7.34 per uni							₹ 9,600	
	ı						₹ 8,808	
Profit							₹ 792	

₹ 792 *Working Note Overhead expenses in each month have been charged on the basis of direct labour hours. For example, in January:

Overhead expenses in each month have been charged on the basis of direct labour hours. For

Overhead rate = Overhead expenses + 4,800 hrs = 2.50 per hour.

= ₹ 12,000 + 4,800 hrs = 2.50 per hour.

Charge for January = 240 hours @ ₹ 2.50 = ₹ 600.

Similar calculations to be made for other months.

	_			
COST	-	\sim	11617	rinc
CACT	AL.			111473
6031		_		

12.11

Answer to Q. No. 7: (1) FACTORY OVERHEAD RATES

CA R. K. MEHTA

١				
١		I	Departments	
١	(i) Factory Overheads	1	2	3
	(ii) Direct Labour Hours = Total Wages	5,000	3,000	3,000
	1 (11)	5,000	6,000	4,000
	Hourly Rate			
	(iii) Rate per flour (i) + (ii)	1.00	0.50	0.75
	(iii) Rate per hour (i) ÷ (ii)	1.00	0.50	0.79

(2) Percentage of Selling and Distribution Cost to Works Cost.

$$=\frac{12,200}{61,000}\times100=20\%$$

Job	COST SHEET	T Per	iod
Materia		₹	₹ 24.00
Direct \	Nages Dept.1 Dept. 2 Dept. 3	10 6 <u>4</u>	20.00 44.00
Dept. Dept. Dept. Sellin	y Overheads: 1 (10 hrs. @₹ 1.00) 2 (6 hrs. @₹ 0.50) 3 (4 hrs. @₹ 0.75) Works Cost g and Distribution Cost (20% on works cost) Cost of Sales	₹ 10.00 3.00 <u>3.00</u>	16.00 60.00 12.00 72.00 7.20 79.20
Profit	(10% on cost) Selling Price		

13. 1

CAR. K. MEHTA

NON INTEGRATED AND INTEGRATED ACCOUNTS The balance in the cost ledger of manufa

cost ledger of manufacture	
Stores Ledger Control Accompany on Jan	uary 1 st , 2013 was :
TOLK IN De-	₹
Inished Carrier Legigle Contract A	7,000
General Ledger Adjustment Account	12,800
Ledger Adjustment Account	2,000
	21,800
Bushe given the following information	
Purchase of Material Direct Factory Was	2013
Direct Factory Wages	40,000
- undidicition to	60,000
Setting and Distribution Expenses	34,600
Manufacturing Expenses	5,400
	37,200
Selling and Distribution F	34,440
Selling and Distribution Expenses Recovered Safes	5,320
Stock of Finished Cont	1,50,000
Stock of Finished Goods at December 31st, 2013	4,700
Predictor of December 31st 2012	4.4.700
regarded to show the account in the cost ledges for	the above year 2013,
the Costing Profit & Loss Account for the year and extr	act the Trial Balance.

You are re , to prepare the s Account for the year and extract the Trial Balance.

The following balances are shown in the Cost Ledger as at January 1, 2013

	Dr. (₹)	Cr. (₹)
Finished Goods Control Account	2,000	
Work-in-progress Control Account	4,000	
Store Ledger Control Account	10,000	
Cost Ledger Control Account		16,000
	16.000	16,000

Transaction for the year ended December 31, 2013 were :

Transaction for the year enter		59,000
Purchase of Material		3,600
Purchase of Material directly by factory		400
Return to Suppliers (Stores)		
Wages Paid :	41,000	
Direct	9,000	
Factory Indirect	7,800	
Administrative Staff	4,800	62,600
Selling & Distribution		4,400
Expenses (Direct)		10,200
Expenses (Direct)		8,200
Production Expenses		5,200
Administration Expenses		61,000
Selling & Distribution Expenses Selling & Distribution Expenses		800
Material Issued to the Store		2,600
Material Issued to Figure 10 House Material Lost by fire in the Store Material Lost by fire in the Store Maintenance account		22,000
Material Lost by fire in the otto	Coods	15,600
_ 11.00 1/01/102		10,400
Production Overhear recovered from Administration Overhead recovered from cost of the sylverhead recovered f	of sales	1,32,000
Administration overhead recovered non-		1,40,000
Administration Overnead recovered in Administration Overnead recovered from cost of Selling overhead selling overhead recovered from cost of Selling overhead selling from cost of		1,60,000
Finished Goods Sold	teer to record th	e above trans
~ ! ~! (:0005 VV'-	the state of the cold of the state of the st	10 04-

1,60,000

Write up the necessary accounts in the Cost Ledger to record the above transactions and prepare a Trial Balance on 31:12:2013.

13.2

CAR. K. MEHTA

85,000

At the beginning of a month, the opening balances in cost ledger were :

At the beginning of a r	nonui,	the opening balances	₹ (in lakhs) 80
Stores Ledger Control			20
Work-in-Progress Cor			430
Finished Goods Contr			10
Building Construction	Accou	nt	540
Cost Ledger Control	Accour	it	
During the month, the	MOIIO	ing transactions took place:	40
Materials	-	Purchased	50
Maioriaio		Issued to production	6
		Issued to general maintenance Issued to building construction	4
			150
Wages	-	Gross wages paid	40
		Indirect wages For building construction	10
Manda Overboads	_	Actual amount incurred (excluding	
Works Overheads		items shown above)	160
		Absorbed in building construction	20
		Under absorbed	8
Royalty paid			5
Selling overheads			25
Sales			450
Quico			

At the end of the month, the stock of raw material and work-in-progress was ₹ 55 lakhs and ₹ 25 lakhs respectively. The loss arising in the raw material account is treated as factory overheads. The building under construction was completed during the month. Company's gross profit margin is 20% on sales.

Prepare the relevant control accounts to record the above transactions in the cost ledger of the company.

As on 31st March, 2013, the following balance existed in a firm's cost ledger. Q.4.

Manufacturing overhead recovered

73 Oli O i Maron, 20 re, are remaining	Debit ₹	Credit ₹
Stores Ledger Control Account	3,00,000	-
Work-in-progress Control Account	1,50,000	-
Finished Goods Control Account	2,50,000	-
Manufacturing Overhead Control Account		15,000
Cost Ledger Control Account		6,85,000
	7,00,000	7,00,000
During the next quarter, the following transaction	ns are recorded	
		₹
Cost of goods produced by factory		2,25,000
Manufacturing overhead incurred		90,000
Raw Material purchased		1,25,000
Direct Wages		40,000
Indirect Wages		20,000
Cost of goods sold		1,75,000
Materials issued to production		1,35,000
Sales returned (at cost)		9,000
Materials returned to suppliers		13,000

You are required to prepare the Cost Ledger Control A/c., Stores Ledger Control A/c., Work-in-progress Control A/c., Finished Stock ledger Control A/c., Manufacturing Overhead Control A/c., Wages Control A/c., Cost of Sales A/c. and the Trial balance at the end of the quarter.

A fire destroyed some accounting records of a company. You have been able to collect the following from the spoilt papers to the spoil to the spoilt papers to the spoil papers the following from the spoilt papers/records and as a result of consultation with

Beginning Inventory	Raw-Materi ₹ 32,000	als A/C	₹
	Nork-in-Proc	ress A/C	
Beginning Inventory	₹		₹
- Andrews	9,200	Finished Stock	1,51,000
Olemina	Creditors	A/C	
Closing Balance	19,200	Opening Balance	₹ 16,400
Manufacturing Overheads A/C			
Amount Spent	₹ 29,600		₹
Finished Goods A/c			
Opening Inventory	₹ 24,000	Closing Inventory	₹ 30,000

(ii) Additional Information:

- (1) The cash-book showed that ₹ 89,200 have been paid to creditors for rawmaterial.
- (2) Ending inventory of work-in-progress included material ₹ 5,000 on which 300 direct labour hours have been booked against wages and overheads.
- (3) The job cards showed that workers have worked for 7,000 hours. The wage rate is ₹ 10 per labour hour.
- (4) Overhead recovery rate was ₹ 4 per direct labour hour.

You are required to complete the above accounts in the cost ledger of the company.

From the following information write up Control Accounts in the Ledger of a Factory where the Cost and Financial Accounts are integrated and prepare a Trial balance as on Q.6. 31st March, 2013.

2013.	₹
Ledger Balance as on 1 st April, 2012: Share Capital Reserves Sundry Debtors Plant & Machinery Sundry Creditors Bank Overdraft Raw Material	1,00,000 25,000 20,000 1,25,000 30,000 40,000 50,000
Transactions during the year: Raw Material Purchased Raw Material issued to production Raw Material on hand 31:03:2013 Raw Material on hand 31:03:2013 Total Wages – Paid — Direct Manufacturing Expenses – Incurred Recovered to production	80,000 1,00,000 26,000 95,000 93,000 87,500 93,000

Pages

COST ACCOUNTING	13. 4	CA R. K. MEHTA
	Selling & Distribution Expenses Finished Stock – Production in factory (at Cost) - Sales (at Selling Price) - Closing Stock Payments to Creditors Receipt from Debtors	10,000 1,91,000 2,86,000 NIL 85,000 3,00,000

BPR Limited keeps books on integrated accounting system. The following balances Dr. (₹) appear in the books as on April 1, 2012: 40,950 Stores Control A/c 38,675 Work-in-progress A/c 52,325 Finished Goods A/c 22,750 Bank A/c 18,200 Creditors A/c 1,47,875 Fixed Assets A/c 27,300 Debtors A/c 1,82,000 Share Capital A/c 11,375 Accumulated Depreciation A/c 3,725 Provision for Doubtful Debts A/c 6,250 Factory Overheads Outstanding A/c 9,975 Pre-Paid Administration Overheads A/c 72,800 Profit & Loss A/c 3,17,100 3,17,100 The transactions for the year ended on March 31, 2013 were as given below :

The transactions for the year chase on many	₹	₹
Direct Wages	1,97,925	-
Indirect Wages	11,375	2,09,300
Purchase of materials (on credit)		2,27,500
Materials issued to production		2,50,250
Materials issued for repairs		4,550
Goods finished by factory during the year (at cost)		4,89,125
Credit Sales		6,82,500
Cost of Goods sold		5,00,500
Production overheads absorbed		1,09,200
Production overheads paid during the year		91,000
Production overheads outstanding at the end of year		7,775
Administration overheads paid during the year		27,300
Selling overheads incurred		31,850
Payment to Creditors		2,29,775
Payment received from Debtors		6,59,750
Depreciation of Machinery		
Administration overheads outstanding at the end of year		14,789
Provision for doubtful debts at the end of the year		2,225
year		4,590

Write up accounts in the integrated ledger of BPR Limited and prepare Trial Balance.

The following discrepancies have been observed between book stock and physical stock in the course of annual stock taking.

Product	Bin Card/Stock Card (Units)	Stores Ledger (Units)	Physical Count (Units)	Cost Per Unit
Α	800	800		(₹)
В	560		770	30
Pass nece		560	570	20

circumstances.

The following figures have been extracted from CAR. K. MEHTA

Stores	extracted	from the cost records of a manuf	acturing
Opening Balance	- ₹	Work-In-Progress:	
Purchase of Material	00,000	Opening Balance	₹
Transfer from WIP	3,36,000	Direct wages	1,26,000
Issues to WIP	1,68,000		1,26,000
	3,36,000	- criteaus recovered	5,04,000
Issues to Repairs	40 -	Dalance of WIP	84,000
Deficiencies found in stock	12 600		-
Finshed Products: Entire	12,000		1

'roducts: Entire output is sold at a profit of 10% on Actual Cost from WIP.

Others: Wages incurred ₹ 1,47,000. Other Works Overheads ₹ 5,25,000. Income from investments ₹ 21,000. Loss on sale of Fixed Assets ₹ 42,000

Prepare; (a) Costing Profit and Loss Account (b) Profit and Loss Account

IMPORTANT THEORETICAL QUESTIONS

- What is meant by interlocking system and integrated system of maintaining cost and Q.1. financial accounts?
- There are two ways of organising cost accounts: Ans.
 - (a) Interlocking System; and
 - (b) Integrated accounts.

Under the interlocking system, cost accounts are distinct from financial accounts. In other words, two separate sets of account books are maintained - one for cost accounts and the other for financial accounts.

Under the integrated system, a single set of accounts provides both financial and cost accounting information. This means cost accounts and financial accounts are combined into one set of account books. Thus, profits as per financial accounts is the profit as per the cost accounts. In such a system, there is no need to reconcile the profits as shown by the two sets of accounts.

- What are Control Accounts? Describe their advantages.
- Under interlocking system control accounts are maintained in the cost ledger to complete double entry in cost books. These control Accounts are nothing but total accounts or adjustment accounts, summarising mass of information contained in the subsidiary Q.2. Ans. A control account is maintained in the cost ledger so that double entry in the cost ledger

may be completed and make it self-balancing. The balance in control accounts may be completed and make it semplated by control accounts of similar nature maintained in represents the total of balances in the number of account relates. that subsidiary ledger to which the control account relates. It provides a check for ensuring that all expenditure is accounted for in cost Advantages: the main advantages of control accounts are

- It provides a basis for reconciliation with the financial accounts (a)
- It provides ready means for preparing monthly or periodical balance sheets. Profit
- (b)
- & Loss Accounts, and Cost Statistics. (c)

Pages

Q.3. What is Integrated Accounting? Briefly describe the merits of integration.

Ans. Integrated Accounts: Integrated accounts is defined as a "single set of accounts which provides both financial and cost accounting information".

Under the system cost and financial accounts are kept in one self contained ledger which is known as Integrated Ledger. This system does not recognise the need for separate set of accounts. There is thus no need for reconciliation of profit or loss shown by the cost and financial accounts.

and the second s

Advantages of Integrated Accounting: The advantages of integrated accounting are as follows:

- (1) There is no need of reconciling the profits as only one Profit & Loss A/c is prepared.
- (2) Duplication of Clerical Work is avoided. Expenses accounts are analysed for debits to cost accounts and the summaries of the same accounts form the basis for writing up the financial accounts.
- (3) Cost data are obtained without any delay as cost accounts are posted immediately from original entries.
- (4) There is an automatic check on the correctness of cost data. It ensures that all legitimate expenditure is included in cost accounts and reliable and proven cost data is provided to management for its decisions.
- (5) This system tends to co-ordinate the functions of different sections of the accounting which leads to economy.
- Q.4. What are the pre-requisites of Integrated Accounting?
- Ans. (1) It should be decided whether cost and financial accounts are to be fully integrated or to be integrated upto a particular stage like prime cost or factory cost.
 - (2) All accounts should be appropriately coded so as to facilitate understanding and analysis.
 - (3) Proper coordination should exist between the staff responsible for financial and cost aspects of the accounts for generating correct information and using it effectively.
 - (4) A separate record should be maintained in respect of such items which are treated differently in cost and financial accounts.

REVISIONARY PROBLEMS

The following are the balances in the Cost Ledger of X Ltd. on 1st January, 2009: Dr. Cr. Stores ledger control account 4,500 Work-in-progress ledger control account 10,200 Finished goods ledger control account 6,800 Cost ledger control account <u> 21,500</u> Summary of transactions during the year 2009: Materials purchased 20,000 Materials issued to jobs (for production) 18,000 Materials issued for repairs in factory 1,000 Direct wages paid 15,000

COST	ACCOUNTING	
	Indirect wage paid	
	Factory expenses	CA R. K. MEHTA
	Factory expenses paid	5.000
	Administration expenses paid	6,000
	ocimig expenses naid	15,000
	Cost of finished goods produced by factory	7,000
	- 90005 Shirt	55,000
	Sales	70,000
	Prepare control accounts and	1,00,000
	Prepare control accounts and costing profit and loss account in the that the overheads recovered and incurred are the same and that administrated to finished goods.	cost ledger assuming ninistration overheads
9.2.	The balance in a company's work-in-progress control accounts as on ₹ 5,00,000. During the following month, the transactions that took place	31 st March, 2008 was e were as thus :
	Direct wages incurred	₹
	Direct materials issued	60,000
	Completed work billed at cost	2,80,000
	Factory overheads recovered	5,25,000 1,20,000
	Special purchases for job directly by factory	12,000
	Direct expenses	17,000
	Materials returned to stores	4,000
	You are required to write up the ledger account and state its final bala	ance.
Q.3.	From the following data write up the various accounts as you envis	age in the cost ledger
	and prepare a trial balance as on 31st March, 2010 :	₹ (thousands
	(a) Balance as on 1 st April, 2009:	1,240
	Material control	625
	Work-in-progress	1,240
	Finished Goods	84 (Dr.)
	Production Overhead	120 (Cr.)
	Administration Overhead	65 (Dr.)
	Selling and Distribution Overhead	3,134
	General Ledger Control	-
	(b) Transactions for the year ended 31st March, 2010:	
	(b) Transactions for the jumps	4,801
	Materials .	
	Purchases	4,774
	Issued to :	412
	Jobs Maintenance works	34 72
	Administration office	1,493
	Selling department	650
	nimat wades	84
	Direct wages	
	Indirect wages Indirect wages Carriage expenditure from store to factory Carriage expenditure from store to factory	2,423
	Production overhead :	3,591
	Incurred	740
	Absorbed overheads:	740 529
	Absorbed Administration overheads:	148
	Incurred Allocated to finished goods Allocated to sales	140
	Allocated to	

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	CAR. K. MEHTA
ACCOUNTING 13.8	
Sales overheads :	642
Incurred	820
Absorbed	9,584
Finished goods produced	9,773
	12,430
Sales realization	al accounts. From the following
Alpha Ltd. maintains integrated accounts of cot and finance	₹
details write up control accounts	3,00,000
Share capital	2,00,000
	5,00,000
	5,75,000
	2,00,000
	1,50,000
	75,000
Bank and cash balance	7 3,000
The state of the s	40.00.000
	10,00,000 10,50,000
	95,000
	6,50,000
	6,00,000
	3,00,000
Manufacturing expenses charged to production	2,75,000
	1,00,000
	18,00,000
	22,00,000
	.95,000
	11,00,000
	21,00,000
A company operates separate cost accounting and fine	ancial accounting systems. The in the Cost Ledger:
	, ,
	53,375
	1,04,595
Finished Goods Control Account	30,780
	* 11 * * 12 * 12 * 12 * 12 * 12 * 12 *
General Ledger Adjustment Account	1,88,
	1,88,
General Ledger Adjustment Account Transactions for the quarter ended 30,.06.2012 are as und Particulars	1,88,
General Ledger Adjustment Account Transactions for the quarter ended 30,.06.2012 are as und Particulars Material purchased	1,88,
General Ledger Adjustment Account Transactions for the quarter ended 30,.06.2012 are as und Particulars	1,88, ler : 26
General Ledger Adjustment Account Transactions for the quarter ended 30,.06.2012 are as und Particulars Material purchased	1,88, ler :
General Ledger Adjustment Account Transactions for the quarter ended 30,.06.2012 are as und Particulars Material purchased Materials issued to production Materials issued for factory repairs	1,88, ler : 26 40
General Ledger Adjustment Account Transactions for the quarter ended 30,.06.2012 are as und Particulars Material purchased Materials issued to production	1,88, ler : 26 40
General Ledger Adjustment Account Transactions for the quarter ended 30,.06.2012 are as und Particulars Material purchased Materials issued to production Materials issued for factory repairs Factory wages paid (including indirect wages ₹ 23,000) Production overheads incurred	1,88, ler : 26 40 77 95
General Ledger Adjustment Account Transactions for the quarter ended 30,.06.2012 are as und Particulars Material purchased Materials issued to production Materials issued for factory repairs Factory wages paid (including indirect wages ₹ 23,000) Production overheads incurred Production overheads under-absorbed and written off	1,88, ler : 26 40
General Ledger Adjustment Account Transactions for the quarter ended 30,.06.2012 are as und Particulars Material purchased Materials issued to production Materials issued for factory repairs Factory wages paid (including indirect wages ₹ 23,000) Production overheads incurred Production overheads under-absorbed and written off Gales	1,88, ler : 26 40 77 98
General Ledger Adjustment Account Transactions for the quarter ended 30,.06.2012 are as und Particulars Material purchased Materials issued to production Materials issued for factory repairs Factory wages paid (including indirect wages ₹ 23,000) Production overheads incurred Production overheads under-absorbed and written off	1,88, ler : 26 40 77 98
	Sales overheads: Incurred Absorbed Finished goods produced Cost of goods sold Sales realization Alpha Ltd. maintains integrated accounts of cot and finance details write up control accounts: Share capital Reserve Sundry creditors Plant and machinery Sundry debtors Opening stock (stores) Bank and cash balance Transactions during the year were as follows: Stores purchased Stores issued to production Stores in hand Total wages incurred Direct wages charged to production Manufacturing expenses incurred Manufacturing expenses charged to production Selling and distribution expenses Finished goods produced by factory Sales at selling price Closing stock (finished) Payments to creditors Receipts from debtors A company operates separate cost accounting and fina following is the list of Opening Balances as on 01.04.2012 Particulars Stores Ledger Control Account



13.9

Required: Prepare the relevant Control Accounts, Costing Profit and Loss Account and General Ledger Adjustment Account to record the above transactions for the quarter ended

Q.6. On 31st March, 2011 the following balances were extracted from the books of the Supreme

Stores Ledger Control A/c. Work-in-Progress Control A/c. Finished Goods Control A/c. Cost Ledger Control A/c.	Dr. (₹) 35,000 38,000 25,000	Cr. (₹)
Cost Ledger Control A/c.	25,000	98,000
	98,000	98,000
The following transactions took place in April, 2011.	-	
Raw Materials :		₹
Purchased		95,000
Returned to Suppliers		3,000
Issued to Production		98,000
Returned to Stores		3,000
Productive Wages		40,000
Indirect Labour		25,000
Factory Overheads Incurred		50,000
Selling and Administrative Expenses		40,000
Cost of Finished Goods transferred to warehouse		2,13,000
Cost of Goods sold		2,10,000
Sales		3,00,000
SAIRS		

Sales Factory Overheads are applied to production at 150% of Direct Wages, any underlover absorbed overhead being carried forward for adjustment in the subsequent months.

Required:

- (a) Cost Ledger Control A/c.
- (b) Stores Ledger Control A/c.
- (c) Work-in-progress Control A/c.
- (d) Finished Goods Control A/c.
- (e) Factory Overhead Control A/c.
- (f) Costing Profit and Loss A/c.

Also prepare Trial Balance as at 30th April, 2011.

gures have been extracted from the cost records of a manufacturing unit : Q.7.

figures have been extracted from	In the cost reserve	₹
The following figures have been extracted from		32,000
Stores: Opening balance		1,58,000
Stores: Opening balance Purchases of material		80,000
Transfer from work-in-progress		1,60,000
	20,000	
Issues to work-in-programme lasues to repair and maintenance		
Deficiencies found in stock-taking	6,000	
Deficiencies found in stoom balance	60,000	65,000
Wark in-progress		2,40,000
Direct wages applied		45,000
Direct wag-		
Overheads applied		
Closing balance of WIP		

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13. 10 **COST ACCOUNTING**

CA R. K. MEHTA

Finished products: Entire output is sold at a profit of 10% on actual cost from work-inprogress. Wages incurred ₹ 70,000, Overhead incurred ₹ 2,50,000.

Items not included in cost records : Income from investment ₹ 10,000, Loss on sale of

Draw up Store Control Account, Work-in-progress Control Account, Costing Profit and Loss Account, Profit and Loss Account and Reconciliation Statement.

Q.8. Pass journal entries in the cost books (non-integrated system) for the following transactions:

- (ii) Gross Total wages paid ₹ 50,000. Wages analysis book detailed ₹ 20,000 for direct labour, ₹ 12,000 towards indirect factory labour, ₹ 10,000 towards salaries to office staff and ₹ 8,000 for salaries to selling and distribution staff.
- Q.9. Dutta Enterprises operates an integral system of accounting You are required to pass the Journal Entries for the following transactions that took place for the year ended 30th June, ₹ 2008.

2008.	-
2	6,00,000
Raw materials purchased (50% on Credit)	4,00,000
Materials issued to production	2,00,000
Wages paid (50% Direct)	1,00,000
Wages charged to production	80,000
Factory overhead incurred	1,00,000
Factory overheads charged to production	40,000
Selling and distribution overheads incurred	5,00,000
Finished goods produced at cost	7,50,000
Sales (50% Credit)	Nil
Closing stock	2,00,000
Receipts from debtors	2,00,000
Payments to creditors	(3-3-1) (3-3-1) (3-3-1)

Q.10. The following transactions are extracted from the books of XYZ Ltd. You are required to journal entries under Integrated Accouns System:

		₹
1.	Purchase of raw materials on credit	4,00,000
2.	Carriage inward	3,000
3.	Paid to ceditors	3,00,000
4.	Sores issued	2,50,000
5.	Direct wages paid	2,00,000
6.	Indirect wages paid	70,000
7.	Works overheads incurred	3,60,000
8.	Materials issued for repairs	2,000
9.	Selling expenses paid	10,000
	Office expenses paid	4,000
11.	Works overheads absorbed	4,10,000
12.	Cost of completed jobs	8,60,000
		0,00,000