

2019

Part-III

COST ACCOUNTING AND STATISTICS

(Honours in Marketing Management)

PAPER—MH-6

Full Marks : 100

Time : 4 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Group—A

1. Answer any one question : 1×15

- (a) From the following information, prepare a cost sheet showing prime cost, works cost, cost of goods sold and profit :

(Turn Over)

	2018 on January 1 Rs.	2018 On June 30 Rs.
Cost of raw materials	30,000	25,000
Cost of W.I.P	12,000	15,000
Cost of stock of finished goods	60,000	55,000

Transactions during six months are :

Purchases of raw materials	4,50,000	
Wages paid	2,30,000	
Factory overheads	92,000	
Administration overheads	30,000	
Selling distribution overheads	20,000	
Sales	9,00,000	
		4+4+4+3

- (b) What is Cost Accounting? What are its important objectives? Distinguish between Cost Accounting and Financial Accounting.

3+6+6

(c) The following is an extract of the record of receipt and issues of sulphur in a chemical factory during December, 2018 :

Dec 1 : Opening balance	500 tons @ Rs. 200
8 : Issued 250 tons	
13 : Received from supplier	
	200 tons @ Rs. 190
16 : Issued 180 tons	
20 : Received from supplier	
	240 tons @ Rs. 130
24 : Issued 300 tons	
25 : Received from supplier	
	320 tons @ Rs. 180
28 : Issued 200 tons	
29 : Received from department	
	30 tons @ Rs. 180

Issued are to be priced on FIFO principle. The stock varifier of the factory had found a shortage of 10 tons on 22 December and left a note accordingly.

Draw up a Store Ledger.

15

2. Answer any *three* questions : 3×8

- (a) What is ABC analysis of stores control ?
- (b) What is normal loss? How is it treated in cost accounts? 2+6
- (c) Discuss the treatment of under-absorbed and over-absorbed factory overheads in cost accounting.
- (d) The annual requirement of an item is 12000 units each costing Rs. 6. Every order costs is Rs. 200 and inventory carrying charges are 20% of the average inventory per annum.

Find out Economic Order Quantity and total inventory cost.

- (e) From the following details calculate the total earnings of a worker and effective hourly rate of labour wages where bonus is paid under :
- (i) The Halsey (50%) plan
- (ii) The Rowan Plan :

Basic rate of wages per hour	Rs. 36
Time allowed for the job	16 hours
Time actually taken	12 hours

3. Write short notes (any *three*) : 3×2

- (a) Cost unit.
- (b) By-products.
- (c) Opportunity cost.
- (d) What is cost sheet ?
- (e) What is semi-variable cost ?

[Internal Assessment — 5 Marks]

Group—B

4. Answer any *one* question : 1×15

- (a) For a set of 10 observations, the AM and the CV are 40 and 40% respectively. If one observation equal to 50 is left out, what will be the value of AM and CV for the remaining 9 observations in the set ?

7+8

- (b) Fit a straight line trend equation by the method of least squares from the following profit figures of Palco Traders. Also estimate the trend value for the year 2020.

Year (x) :	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Profit (y) : (‘000)	65	80	84	75	77	71	76	74	70	68

- (c) (i) Two lines of regression are given by $x + 2y = 5$ and $2x + 3y = 8$. Calculate the value of \bar{x} , \bar{y} and correlation coefficient between x and y .
- (ii) What are the important properties of correlation coefficient ?

12+3

5. Answer any *three* questions :

3×8

- (a) Mention various types of correlation using scatter diagram.
- (b) Explain the term skewness and its various types.

2+6

(c) Find SD from the following distribution :

Rupees	Frequency
0 and above	50
10 and above	44
20 and above	36
30 and above	24
40 and above	14
50 and above	6
60 and above	0

(d) Define primary data and secondary data. Define discrete variable and continuous variable. 4+4

(e) (i) The cost of living index number for a certain group goes up from 110 in 2011 to 220 in 2018 and the monthly salary of a worker belonging to this group is also raised from Rs. 22,000 in 2011 to Rs. 33,000 in 2018. Does the worker really gain ?

(ii) What is cost of Living Index ? 5+3

6. Answer any *three* questions from the following : 3×2

- (a) Mention the properties of correlation.
- (b) Mention various components of time series.
- (c) Distinguish between correlation coefficient and regression coefficient.
- (d) If $b_{yx} = -0.5$ and $b_{xy} = -0.25$, find the value of r_{xy} .
- (e) What is Pie-chart ?

[*Internal Assessment — 5 Marks*]
