

M.Com. Part-I Examination, 2021 (DDE)

Subject: Commerce

Paper: 3

(Managerial Economics)

Time: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words
as far as possible*

Answer any four questions

10x4=40

1. What are the main criteria of demand forecasting? Explain one such method of demand forecasting in brief. (5+5)
2. Explain the law of variable proportion with the help of a suitable diagram. 10
3. Show that the long-run average cost curve is the envelope of the short-run average cost curves. 10
4. Show how price is determined in a monopoly market. 10
5. Analyse the process of equilibrium under duopoly when output is the parameter of action and conjectural variation of each seller is zero. 10
6. Show the equilibrium of a firm whose objective is to maximise sales subject to a minimum profit constraint. 10

M.Com. Part-I Examination, 2021 (DDE)

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Paper: 4

(Business Statistics)

Time: 2 Hours

Full Marks: 40

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Answer any four questions.

10 X 4 =40

1. Explain the following terms :

(a) Scatter Diagram

(b) Rank correlation coefficient

(5+5)

2. (a) Explain the advantages of the sample survey method.

(b) Distinguish between parameter and statistic.

(5+5)

3. (a) "If the events are mutually independent, they will also be pairwise independent, but the converse may not be true"- Explain the statement.

(b) State and prove the theorem on total probability for three events which are mutually exclusive.

(5+5)

4. (a) Derive the expectation and variance of Binomial Distribution

(b) State the different methods of point estimation.

(5+5)

5. A population consists of only four members having the following values: 25, 27, 29, 31.

If a sample of size 2 is drawn, construct the sampling distribution of sample mean in case of SRSWOR. Also show that the mean of sample means is equal to population mean, but the variance of sample means is not equal to the population variance.

10

6. Point out different types of mean test and write down the test statistic and sampling distribution for each of those types.

10