

Dr. Babasaheb Ambedkar Open University

Term End Examination February – 2026

Course : BBA/DBA Subject Code : BBAMDC203/DBAMDC203 Subject Name : Business Statistics	Date : 14-Feb-26 Time : 03:00pm to 05:15pm Duration : 02.15 Hours Max. Marks : 70
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Question Paper

- Answer the following questions. Marks
- Q-1 Explain the Applications of Statistics in Business. 14
- Or
- Q-1 Explain the Frequency Distribution and Its Types. 14
- Q-2 Find the mean, median, and mode from the following data: 14
- | | | | | | | |
|-------|-----|-------|-------|-------|-------|-------|
| Class | 0-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 |
| Freq. | 5 | 12 | 28 | 20 | 4 | 3 |
- Or
- Q-2 The following distribution shows the number of accidents in 30 cities during a week. Find the standard deviation of the number of accidents. 14
- | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|
| No of accidents | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Number of cities | 2 | 3 | 4 | 7 | 5 | 5 | 3 | 1 |
- Q-3 Explain the Techniques of measuring correlation. 14
- Or
- Q-3 Calculate the coefficient of correlation from the following data. 14
- | | | | | | | | | | | |
|---|----|----|----|----|----|----|----|----|----|----|
| X | 39 | 65 | 62 | 90 | 82 | 75 | 25 | 98 | 36 | 78 |
| Y | 47 | 53 | 58 | 86 | 62 | 68 | 60 | 91 | 51 | 84 |
- Q-4 Explain the Non-Random Sampling Method in detail. 14
- Or
- Q-4 The following figures relate to the prices and quantities of certain commodities. Construct an index number for 2024 with 2021 as the base using (i) Laspeyres's (ii) Paasche's (iii) Fisher's (iv) Dorbish and Bowley's (v) Marshal Edgeworth Formula. 14
- | | 2021 | | 2024 | |
|---|-------|----------|-------|----------|
| | Price | Quantity | Price | Quantity |
| A | 28 | 12 | 40 | 10 |
| B | 35 | 8 | 48 | 8 |
| C | 18 | 16 | 32 | 10 |
| D | 20 | 10 | 25 | 12 |

Q-5 (A)	Write a short note (any three)	
1	General Rules for Constructing Diagrams	03
2	Merits and demerits of quartile deviation.	03
3	Advantages and Disadvantages of Mean Deviation.	03
4	Difference Between Correlation and Regression.	03
5	Components of Time Series.	03
Q-5 (B)	MCQ.	
1	Who defined statistics as "the art of making inferences from data"? a) Karl Pearson b) Ronald A. Fisher c) George E.P. Box d) Sir Francis Galton	01
2	Which measure of dispersion is most commonly used to measure the consistency of data in the middle 50%? a) Range b) Mean c) Quartile Deviation d) Standard Deviation	01
3	A sample is regarded as a subset of a) Data b) Set c) Distribution d) Population	01
4	What does a larger Mean Deviation suggest? a) Data points are closely grouped b) Data points are spread out c) Data has no variability d) Central value is incorrect	01
5	In case the values are of equal importance, then the index number is known as a) Weighted b) Composite c) Unweighted d) Value index	01
