

Dr. Babasaheb Ambedkar Open University
Term End Examination July – 2026

Course	: BBA	Date	: 14-07-2026
Subject Code	: BBAMDC203	Time	: 03:00pm to 05:15pm
Subject Name	: Business Statistics	Duration	: 02.15 Hours
		Max. Marks	: 70

Q-1. Describe primary data and secondary data with its advantages and disadvantages. **14**

OR

Find mean, median and mode from the following data:

Class	0-9	10-19	20-29	30-39	40-49	50-59
Frequency	5	12	28	20	4	3

Q-2. Find standard deviation of the following distribution **14**

Class	100-200	200-300	300-400	400-500	500-600	600-700	700-800	800-900	Total
Frequency	15	20	10	18	14	23	15	20	135

OR

Find mean deviation and coefficient of mean deviation for the following frequency distribution:

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	2	5	12	18	15	8	5

Q-3. Compute Karl Pearson's coefficient of correlation in the following series relating to price and supply of commodity. **14**

Price (₹)	70	75	80	85	90	95	100	105	110	115
Supply (Quantity)	30	29	25	25	22	20	18	18	16	10

OR

Find rank correlation coefficient from the following data.

X	70	40	42	48	35	38	40	45	70	55	51
Y	120	125	124	120	120	130	128	122	110	116	118

Q-4. Explain the difference between Correlation and Regression in detail. **14**

OR

The following figures relate to the prices and quantities of certain commodities construct an index number for 2025 with 2022 as base using (i) Laspeyres's (ii) Paasche's (iii) Fisher's (iv) Dorbish and Bowley's (v) Marshal Edgeworth Formula.

Commodity	2022		2025	
	Price	Quantity	Price	Quantity
A	15	5	22	8

B	5	10	7	15
C	60	1.2	75	2
D	14.25	15	15	25
E	32	18	36	30
F	2.5	8	3	10

Q-5 (A) Write Short Notes on: (Any Three)

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1. Nature of Statistics
2. Significance of Diagrams and Graphs
3. Merits and Demerits of Range
4. Types of Correlation
5. Characteristics of a Good Sample

Q-5 (B) Choose the correct answer from the options given below each of the following statements:

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1. How does statistics improve processes in healthcare?
 - (a) By creating new medicines
 - (b) By identifying improvement areas
 - (c) By predicting weather conditions
 - (d) By studying customer satisfaction
2. Which of the given plots is suitable for testing the linear relationship between a dependent and independent variable?
 - (a) Bar chart
 - (b) Scatter plot
 - (c) Histograms
 - (d) All of the above
3. If the sum of squares of differences in ranks of two variables x and y is 126 and the correlation coefficient is -0.5 , find the number of pairs.
 - (a) 5
 - (b) 6
 - (c) 7
 - (d) 8
4. The period of moving average is to be decided in the light of the length of
 - (a) Secular Trend
 - (b) Seasonal Fluctuation
 - (c) Cyclical Fluctuation
 - (d) Irregular variation
5. Which of the following is NOT a component of a time series?
 - (a) Regular variation
 - (b) Seasonal variation
 - (c) Cyclic variation
 - (d) Trend
