

**QP CODE**

**H1016**

**Enrollment Number: .....**

**Name: .....**

**BA DEGREE EXAMINATIONS, FEBRUARY 2026**

**Fourth Semester**

**B.A. ECONOMICS**

**B21EC04DC – Statistics for Economics**

**(2023 July admissions)**

**Time: 3 Hours**

**Max Marks: 70**

**Section A**

**Answer any ten of the following questions in a word or sentence each. Each question carries 1 mark.**

1. Mode.
2. Variance.
3. Scatter diagram.
4. Correlation.
5. Explanatory variable.
6. Least square method.
7. Regression.
8. Index numbers.
9. Splicing.
10. Population.
11. Probability Sampling.
12. Consumer Price Index.
13. Random Sampling.
14. Probability.
15. Mutually Exclusive events.

**(1X10=10)**

**Section B**

**Answer any ten of the following questions in two or three sentences each. Each question carries 2 marks.**

16. Find the median for the following data.

Class Interval: 0-5    5-10    10-15    15-20    20-25

Frequency:        5        10        15        12        8

17. Calculate mean.

Class	0-10	10-20	20-30	30-40	40-50
Frequency:	8	12	20	6	4

18. Scatter Diagram.

19. Spearman's Rank Correlation.

20. Partial correlation.

21. Least Square Method.

22. Regression Coefficient.

23. What are Index numbers? Discuss briefly the uses of index numbers?

24. Fisher's ideal Index numbers.

25. Find purchasing power of money for the year 2023, if the price index =125.

26. Distinguish between population and sample.

27. Non-Probability Sampling.

28. Explain important features of simple random sampling.

29. What is random experiment?

30. Classical Approach.

**(2X10=20)**

### **Section C**

**Answer any five of the following questions in a paragraph each. Each question carries 4 marks.**

31. Calculate Quartile deviation on the given data set

Months:	1	2	3	4	5	6	7	8	9	10	11
No. of students	239	250	251	251	257	258	260	261	262	262	273

32. Explain the various properties of coefficient of correlation.

33. Distinguish between correlation and regression.

34. Explain consumer price index.

35. Point out the steps and problems involved in the construction of index numbers.

36. Why Fisher's Index Number is called as an ideal index? Explain.

37. Distinguish between population and sample data.

38. Explain cluster sampling.

39. Explain probability sampling methods.

40. Explain the concept of

a) Sample Space b) Sample point c) Mutually Exhaustive events d) Equally likely events

**(4X5=20)**

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## Section D

Answer any two of the following questions in two pages each. Each question carries 10 marks.

41. Explain important measures of central tendency
42. Calculate Karl Person's correlation coefficient between X and Y from the following data  
 $n=10, \sum x=35, \sum y=28, \sum x^2=203, \sum y^2=140, \sum xy=168$
43. Find the two regression equations from the following data  
X: 57 58 59 59 60 61 62 64  
Y: 77 78 75 78 82 82 79 81
44. Consider the random experiment of throwing two dice together and answer the following questions.
- Write down the sample space.
  - What is the probability of getting a sum 6.
  - What is the probability of getting a doublet.
  - Write any two events which are mutually exclusive and exhaustive in the above experiment.

**(10X2=20)**