BBA-05

June - Examination 2026

Bachelor of Business Administration (Ist Year) Examination

Fundamentals of Business Statistics

Paper : BBA-05

[*Time:* ***3*** *Hours*] [*Maximum Marks:* ***70***]

Note :- The question paper is divided into three Sections A, B and C. Write answers as per the given instructions in each section.

Section-A **7×2=14**

(Very Short Answer Type Questions)

Note :- Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries **2** marks.

1. (i) What is Statistical Unit?

   (ii) State two merits of a good questionnaire.

   (iii) What is meant by Deliberate Sampling?

   (iv) What is Statistical Error?

   (v) What is Open-end Class?

   (vi) When are the Multiple Bar Diagrams drawn?

   (vii) State four limitations of Statistics.

Section-B **4×7=28**

(Short Answer Type Questions)

Note :- Answer **any four** questions. You have to delimit your each answer maximum up to **200** words. Each question carries **7** marks.

2. Compute Arithmetic Mean from the following data -

Size	50-59	40-49	30-39	20-29	10-19
No. of items	5	8	12	9	6

3. Calculate Inter Quartile Range and its coefficient from the following data -

Accidents	**No. of days**
0 but less than 2	10
2 but less than 4	15
4 but less than 6	3
6 and more	2
	30

4. Calculate Karl Pearson's coefficient of skewness from the following data -

Class	20.5-23.5	23.5-26.5	26.5-29.5	29.5-32.5	32.5-35.5	35.5-38.5
Frequency	17	193	399	194	27	10

5. Describe Karl Pearson's method of calculating correlation with an example.

6. What is Fisher Index Number? Why is it called Ideal Index Number?

7. Given the following -

	x	y
Mean	68	150
Standard Deviation	2.5	20

Coefficient of correlation between x and y : + 0.6

(i) Find the regression equations, and

(ii) Estimate the most probable value of x when y = 200.

8. What is Time Series? What are its main components?

9. 'A' has 5 tickets out of 10 of a lottery scheme and 8 out of 10 of another lottery scheme. What is the probability of him winning the prize?

Section-C

2×14=28

(Long Answer Type Questions)

Note :- Answer **any two** questions. You have to delimit your each answer maximum up to **500** words. Each question carries **14** marks.

10. Explain Newton's Advancing Difference Method of interpolation with example.

11. What are Moments? Explain the procedure of calculating the first four moments about the mean.

12. From the following time series, determine trend values by least square method and estimate the earnings for 2020.

Year	2012	2013	2014	2015	2016	2017	2018	2019
	90	80	90	92	83	94	99	92

13. Write short notes on the following -

(i) Ultimate class frequencies.

(ii) Yule's coefficient of association.

(iii) Independent and dependent events.

(iv) Simple and compound events.
