25U145 (Pages: 2) Name : .....

Reg. No : .....

FIRST SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025

(FYUGP)

(Regular/Supplementary/Improvement)

CC24UCOM1CJ102 - BUSINESS STATISTICS

(Commerce - Major Course)

(2024 Admission onwards)

Time: 2.0 Hours Maximum: 70 Marks

Credit: 4

Part A (Short answer questions)

Answer ***all*** questions. Each question carries 3 marks.

1. State any three functions of Business Statistics. [Level:3] [CO1]
2. Explain any three limitations of statistics with examples. [Level:2] [CO1]
3. State the meaning of level of significance. [Level:3] [CO1]
4. Explain liner and non linear correlation. [Level:2] [CO2]
5. Define intersection of a set. [Level:3] [CO3]
6. State the meaning of subsets. [Level:2] [CO3]
7. Define permutation. [Level:2] [CO3]
8. Define normal distribution. [Level:2] [CO4]
9. Explain the basic concepts of probability distribution. [Level:3] [CO4]
10. Explain three characterstics of poisson distribution. [Level:2] [CO4]

(Ceiling: 24 Marks)

Part B (Paragraph questions/Problem)

Answer ***all*** questions. Each question carries 6 marks.

11. State the merits and demerits of imferential statistics. [Level:2] [CO1]
12. Briefly explain the main two branches of statistics. [Level:2] [CO1]
13. A card is drawn from a deck of 52 cards. If it is replaced, a second card is drawn. Find the probability that: [Level:4] [CO3]

    (i) Both cards are aces (ii) First card is a heart and second card is a king

14. Find mode. [Level:4] [CO1]

Class	F
0-5	12
5-10	16
10-15	19
15-20	14
20-25	4

15. Explain the methods of measure the correlation. [Level:2] [CO2]

16. State the main rules for probability. [Level:2] [CO3]

17. A coin is tossed 4 times. Find the probability distribution of the number of heads. [Level:2] [CO4]

18. Average number of storms in a country is 4 per year, Calculate the probabilities of occuring 0,1,2,3,4,5 and 6 storms hit in the country in the next year? [Level:3] [CO4]

(Ceiling: 36 Marks)

Part C (Essay questions)

Answer any ***one*** question. The question carries 10 marks.

19. Compute the mean deviation about the mean and median from the following distribution: [Level:3] [CO1]

Class : 10–20 20–30 30–40 40–50 50–60

Frequency : 5 8 15 16 6

20. The following data relate to the heights of fathers and sons. Find the two regression co-efficient equation and estimate the height of a son whose father height is 67.5 inches. Also calculate the height of a father if the sons age is 50. [Level:4] [CO2]

X	71	68	73	69	67	65	66	67
Y	69	72	70	70	72	67	68	64

(1 × 10 = 10 Marks)

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