

18. What is normal distribution? Add a note on its properties.
 19. Write the applications of students 't' distribution.
 20. Explain in detail about IPR and patenting.
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P 16 BCE 1

(For candidates admitted from 2016–2017 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

Biochemistry — Elective

BIOSTATISTICS

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20)

Answer ALL the questions.

1. Define a secondary data.
2. Define the term enumerator.
3. Define CV.
4. Define median.
5. Define Probability.
6. What is binomial distribution?
7. Define Standard error.

8. Define analysis of variance.
9. What is the format of article writing?
10. Define IPR.

PART B — ($5 \times 5 = 25$)

Answer ALL questions, choosing either (a) or (b).

11. (a) What are the types of classification?
Or
(b) Write a note on tabulation.
12. (a) Calculate the standard deviation for the following data.

Size of item (X)	6	7	8	9	10	11	12
Frequency (f)	3	6	9	13	8	5	4

Or

- (b) Calculate Spearmanns rank correlation.

X	12	18	16	15	12	10	20	17
Y	6	10	9	8	9	8	12	10

13. (a) One bag contains 5 white and 3 black balls. Another bag contains 4 white and 6 black balls. If one ball is drawn from each bag find the probability that (i) both are white (ii) both are black.

Or

- (b) State the additional and multiplication theorem of probability.
14. (a) Write the types of sampling.
Or
(b) What are the uses of Chisquare test?
15. (a) How to write a review article?
Or
(b) How will you select a research problem?

PART C — ($3 \times 10 = 30$)

Answer any THREE questions.

16. Explain in detail about the organization of statistical investigation.
17. Find the coefficient of correlation between the age of husbands (X) and age of wife (Y)

X	23	27	28	28	29	30	31	33	35	36
Y	18	20	22	27	21	29	27	29	28	29