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PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

Branch - BIOCHEMISTRY

Marks			
SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks (5 x 1 = 5)			
ix			
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)			
6. a Discuss the graphical methods of representing a quantitative data. OR b Illustrate Histogram & Pie-chart with suitable examples.			
d below.			
Find the Mean, Median, and Mode for the above data. OR b A simple sample of 1000 members is found to have a mean 3.42cm. Could it be reasonably regarded as a simple sample from a large population arose mean is 3.30cm ans S.D is 2.6cm. Compute the 'Z' value.			
Organize the properties & importance of Binomial distribution. OR b Examine the properties and role of Poisson distribution.			
. a Evaluate the "t"- test and mention its applications. OR b Analyze Chi square test with suitable examples.			
rnal.			

22BCP311 Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11. a Categorize the types of data with suitable examples.

OR

- b Explain the diagrammatic and graphical representation of data.
- 12. a Evaluate the measures of central tendency and calculate its mean and the standard deviation for the following data about the systolic BP of volunteers in a particular area.

 Systolic BP (mmHg)
 91-100
 101-110
 111-120
 121-130
 131-140
 141-150

 Frequency
 08
 14
 20
 26
 24
 18

OR

- b Formulate the regression analysis.
- 13. a Enumerate the multiplication rule and conditional probability-Baye's theorem.

OR

- b Interpret the theoretical probability distributions.
- 14. a The varieties of A, B, C wheat were grown in 4 plots each and the following yields in tons per acre were obtained.

A	В	C
8	7	2
4	5	5
6	5	4
7	3	4

Test the significance of the difference between the yield of the varieties.

OR

- b Categorize type I & II errors and explain about the level of significance and P-value.
- 15. a Critically analyse the types of research with examples.

OR

b Give a detailed note on research design.

Z-Z-Z

END