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Your Roll No. ....

B.Sc. (H) Part-I Semester II

Unique Paper Code : 215204

Paper : ANTH 206 Biostatistics & Data Analysis

Set-II

E

Time : 3 hours

Max. Marks : 75

Attempt any five questions.
All questions carry equal marks.

Q.1. What is central tendency? Explain different measures of central tendency.

Q.2. Differentiate between range, mean deviation, variance and standard deviation.

Q.3. Describe the tests of significance in statistics. Apply chi-square on the data given in Table-1 and provide relevant inferences:

Table-1: Relation of socio-economic status and anti-social behaviour

Socio-economic Status	Anti-social behaviour			Total
	Yes	No	No-opinion	
Upper class	28	14	5	47
Lower class	19	28	6	53
Total	47	42	11	100

*Chi-square tabular value at 0.05 level of significance and required degrees of freedom is 5.99

Q.4. What is Student's t test? Discuss its application in biostatistics. Apply t test to find out the significant difference in mean test scores between males and females. The mean test score for females is 27.1 (standard deviation =2.57, n=19), and the mean test score for males is 26.7 (standard deviation=3.63, n=20). (tabular value for t distribution at 0.05 level of significance and required degrees of freedom is 2.02)

Q.5. What do you understand by Coefficient of Variation? Explain the use of skewness and kurtosis in understanding normal distribution.

Q.6. What is the relevance of application of computers in human genetics?

Q.7. Discuss different types of variables used in biological anthropology with relevant examples.

Q.8. What do you understand by graphs? Discuss various types of graphical representations used for data analyses.

Q.9. Write short notes on any *two* of the following:

a) Sample
b) Correlation
c) Confidence interval
d) Frequency distribution