

This question paper contains 2 printed pages.

1274

Your Roll No.

B.Sc. (H) / Anthropology / I Sem.

A

Paper – ANTH–206 : Biostatistics and Data Analysis

(Admissions of 2010 and onwards)

Time : 3 hours

Maximum Marks : 70

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt any five questions.

All questions carry equal marks.

1. What do you understand by biological data? Mention four types of biological data and how do you collect such data.
2. Explain mean and mode with suitable examples. Discuss the merits and demerits of each.
3. How and in what ways in your opinion computer can be useful in biological research?
4. What do you understand by 'odds ratio'? Explain with the help of suitable examples.
5. What do you understand by 'chi square goodness of fit test'? Calculate the chi square value for the following data: use p at 0.05. (Tabulated value of χ^2 at 1 degree of freedom at 5% level is 3.841)

Result of the effect of hypertensive drug

Treatment	Response		Total
	Unfavourable	favourable	
Placebo	41	9	50
Drug	16	34	50
	57	43	100

Turn over

6. Write a brief note on the concept of correlation and regression citing examples from the biological data.
7. Give a detailed account of the standard deviation and interquartile range as measures of dispersion.
8. What is the test for comparing data using means? Explain with suitable examples.
9. Write short notes on any two of the following:
 - i) Frequency distributions
 - ii) BLAST and PUBMED
 - iii) Variance
 - iv) Confidence interval
 - v) Softwares available freely on the internet