



GAS-3175

Seat No. _____

B. Sc. (Sem. III) (Biotechnology) Examination

November/December - 2013

Elective Course : Biostatistics

Time : 2 Hours]

[Total Marks : 50

1 Attempt any seven :

1×7=7

- (1) Define - Biostatistics.
- (2) Mean is used when data are measured in _____ scale.
(Nominal/Ordinal/Interval/Ratio scale).
- (3) Calculation of _____ depends on cumulative frequency.

(Mean/Mode/Median)

- (4) Define - Range.
- (5) Number of patients cures is _____ data.
(Qualitative / Quantitative)
- (6) Define - Range.
- (7) Define - Data.
- (8) Define - Hypothesis.

2 Attempt any three :

3×3=9

- (1) Distinguish between qualitative and quantitative data.
- (2) Write about harmonic mean.
- (3) Explain binomial distribution.
- (4) Explain merits and demerits of mode.

3 Attempt any **four** :

5×4=20

- (1) Calculate mean, mode, median for following data :
21, 34, 27, 15, 18, 19, 35, 32, 33, 22, 18.
- (2) Give limitations of biostatistics.
- (3) Explain merits and demerits of median.
- (4) Calculate mode for following data :
2, 8, 6, 7, 12, 19, 20, 5, 17, 15.
- (5) Explain collection of data in biostatistics.

4 Attempt any **two** :

2×7=14

- (1) What is sampling ? Explain significance of sampling in biostatistics.
- (2) Define ANOVA. Explain it with an example.