



**MAE-657**      Seat No. \_\_\_\_\_

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

**October / November - 2018**

**Biotechnology : Paper - EC - 01**

**(Biostatistics)**

Time : 2 Hours]

[Total Marks : 50

**1**    Answer the following : **10**

- (1) Give definition of biostatistics.
- (2) Data from Govt. Agencies are primary data. (True / False)
- (3) Calculate mean 22, 34, 67.
- (4) Median of following data 12, 11, 15, 17, 19.
- (5) Mode of following 6, 7, 8, 7, 5, 7, 6, 7.
- (6) Formula of Median.
- (7) Calculate range 45, 34, 50.
- (8) Formula of Probability.
- (9) Symbol of Student's test.
- (10) Full form of df.

**2**    Answer the following : (any four) **20**

- (1) Explain data and their types.
- (2) Describe table and types of tables.
- (3) Describe theorems of probability.
- (4) Explain chi test and significance.
- (5) Describe diagram and types.

3 Answer the following : (any two)

20

(1) Calculate mean :

$x$	10-20	20-30	30-40	40-50	50-60
$f$	10	11	17	13	15

(2) Describe sample their types and methods.

(3) Calculate Median :

$x$	10-20	20-30	30-40	40-50	50-60
$f$	12	8	17	21	10