



**KK-435**

Seat No. \_\_\_\_\_

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

**October / November - 2017**

**EC-01 : Biotechnology**

**(Biostatistics)**

Time : 2 Hours]

[Total Marks : 50

1 Answer the following : 10

- (1) Define variable.
- (2) Data from investigator are primary data (True/False)
- (3) Calculate mean 12, 11, 8, 6
- (4) Median of following data 22, 21, 20, 24, 25
- (5) Mode of following 12, 11, 11, 12, 10, 11
- (6) Formula of Median
- (7) Calculate range 12, 75, 12
- (8) Formula of chi square test.
- (9) Symbol of mean
- (10) Formula of geometric mean

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

- (1) Define secondary data and disadvantage.
- (2) Explain graph and their types.
- (3) Describe theorems of probability.
- (4) Explain chi square and significance.
- (5) Describe dispersion and types.
- (6) Explain sampling.

3 Answer the following : (any **two**)

20

(1) Calculate mean

$x$	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60
$f$	22	21	20	23	19

(2) Describe t-test and significance.

(3) Calculate Median

$x$	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60
$f$	11	10	9	8	12