

B.sc Examination March-2017

Semester-V

Paper name MI-502 Genetic Engineering
Time 2.30

Paper code: 4307
Total Mark: 70

Instructions: (a) Figure to the right indicates total marks of respective question.
(b) Draw neat, clean and labeled diagram wherever necessary.

- Q.1 Explain:
a) conjugation in bacteria 07
b) Griffith's experiment on transformation 07

OR

- Q.1 Describe:
a) Enzyme involve in genetic engineering 07
b) PCR 07

- Q.2 a) Application of bioinformatics 07
b) Explain various graphical representation of data 07

OR

- Q.2 a) Explain Specialized transduction 07
b) Define exogenote and endogenote in terms of gene transfer 07

- Q.3 a) Describe: southern blotting 07
b) Write note on DNA finger printing 07

OR

- Q.3 a) Application of nenobiotechnology 07
b) Find out mean, mode, median of following data 07
11,8,10,11,12,12,10,14,12,9

- Q.4 a) write note on F plasmid 07
b) Define recombination and explain holiday model 07

OR

- Q.4 a) Explain: gel electrophoresis 07
b) Describe: western blotting 07

- Q.5 a) Essential feature of good table 07
b) Basic organization of computer 07

OR

- Q.5 a) Note on electroporation and gene gun 07
b) Define data and explain its classification 07