

Roll No.

Y – 470/ Y – 471
B.Sc. (Third Year)
EXAMINATION, March/April 2021
BIO-TECHNOLOGY
Paper – I, II
MOLECULAR BIOLOGY AND GENETIC ENGINEERING/APPLIED
BIOTECHNOLOGY

Time : Three Hours

Maximum Marks : 40 + 40 = 80 (For Regular Students)

Minimum Pass Marks : 33%

Maximum Marks : 50 + 50 = 100 (For Private Students)

Minimum Pass Marks : 33%

Note—Attempt *all* questions.

(Section-A)

1. Explain the process of replication in prokaryotes. 13/16
2. Explain Mendel's law of dominance and segregation with suitable example. 13/17
3. Explain chromosomal organization in Eukaryotes. 14/17

(Section-B)

4. Give a brief account of food spoilage bacteria. Suggest preservatives to prevent from these microbes. 13/16
5. Write about chemical composition of plant tissue culture media and how you prepare it ? 13/17
6. Discuss different types of immunoglobulins. Draw a common structure of antibody. 14/17