

Roll No. ....

**Y – 466/ Y – 467 (A)**

**B.Sc. (Third Year) (SPECIAL) EXAMINATION, August 2021**

**(SECOND CHANCE)**

**BIO-CHEMISTRY**

Paper – I, II

**MOLECULAR BIOLOGY/NUTRITION CLINICAL &  
ENVIRONMENTAL BIOCHEMISTRY**

*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. Write about the experimental evidence for semi conservative mode of DNA replication. 13/16
2. Write what do you know about the promoter structure in eukaryotes. 13/17
3. Describe the regulation of lac operon. 14/17

**(Section-B)**

4. Comment on— 13/16
  - (a) Protein calorie malnutrition.
  - (b) Specific dynamic action of food.
5. Define clinical enzymology and explain the diagnostic significance of enzymes in health and diseases. Under which conditions SGOT, SGPT, LDH and alkaline phosphatase are estimated ? 13/17
6. Write a detailed account of water pollution from domestic and industrial wastes. Elaborate the treatment strategies of domestic and industrial wastes. 14/17