Y - 470/Y - 471 (A)

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

(SECOND CHANCE)

BIO-TECHNOLOGY

Paper – I, II

MOLECULER 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. Write short notes on—

- (a) Experimental proof of semi-conservative replication.
- (b) Experimental proof of DNA as genetic material.
- 2. Write short notes on—
 - (a) Linkage.
 - (b) Crossing over.
- 3. Describe Transcription in yeast.

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(Section-B)

- 4. Discuss in procedural details of industrial ethanol production with a neat flowsheet. 13/16
- 5. Write short notes on—

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- (a) Antigens.
- (b) Stem cells.
- 6. Explain the manufacture, formulation and production of biofertilizers.

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