Roll No.	
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DD-468

M. Sc. (Second Semester) EXAMINATION, May/June, 2020

ZOOLOGY

Paper First

(Molecular Cell Biology and Biotechnology)

Time: Three Hours

Maximum Marks: 80

Note: Attempt all questions. All questions carry equal marks. Question No. 1 is compulsory.

- 1. Write short notes on the following:
 - (a) F₁ particle
 - (b) DNA polymerase
 - (c) Heterochromatin
 - (d) Biolechnology and Human Welfare
- 2. Describe the ultrastructure of Ribosome and differentiate the 70s and 80s Ribosome.

Or

- (a) Biochemical components of 'Plasma membrane'.
- (b) Lysosome—structure and functions.
- 3. Describe the process of 'gene regulation in prokaryotes'.

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Or

Write short notes on any two of the following:

- (a) Structure of RNA polymerase in prokaryotes
- (b) Wobble Hypothesis
- (c) Transcription in 'Eukaryotes'
- 4. Describe the process of 'genetic mapping' and its importance.

Or

Write short notes on any two of the following:

- (a) Non-coding DNA
- (b) Southern blotting
- (c) Nucleosome
- 5. Write a description of 'methods of 'production of transgenic animals'.

Or

Write short notes on any two of the following:

- (a) Uses of biotechnology in agriculture
- (b) Applications of stem cell technology
- (c) Medicine biotechnology

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