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No. of Printed Pages : 2

Sl. No.

M.Sc. I Semester Degree Examination, April/May - 2024

ZOOLOGY

DSC 3 : Molecular Cell Biology and Genetics

(NEP)

Time : 3 Hours

Maximum Marks : 70

Note : Answer **any five** of the following questions with question **No.1 Compulsory**. Each question carries **equal** marks.

1. Write short notes on the following :
 - (a) Evidences for DNA as genetic material **5**
 - (b) Protein Structures **5**
 - (c) Types of RNA **4**
2. Explain the DNA damage and repair mechanism. **14**
3. Explain the molecular mechanism of cell cycle regulation. **14**
4. Describe the multiple allelic system with special reference to ABO blood grouping in humans. **14**
5. Explain the Numerical and Structural aberrations of chromosomes. **14**
6. Write short notes on the following :
 - (a) Post Transcriptional processing **5**
 - (b) Fluid mosaic model **5**
 - (c) DNA Sequencing **4**

P.T.O.

- 7.** Write short notes on the following :
- (a) Mendel's principles **5**
 - (b) *Drosophila* as a model organism **5**
 - (c) Sex-Limited Inheritance **4**
- 8.** Write short notes on the following :
- (a) Genetic Code **5**
 - (b) Transport across cell membrane **5**
 - (c) Carbohydrate associated disorders **4**

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