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B.Sc. I Semester (NEP) Degree Examination, March/April - 2022 ZOOLOGY

Cytology, Genetics and Infectious diseases.

Time: 03 Hours Maximum Marks: 60

Instruction: Answer **all** the Sections.

SECTION - A

Answer the following sub-questions in **one** word or **one** sentence each. **10x1=10**

- 1. (a) Mention the types of Cell Signalling.
 - (b) What is incomplete dominance?
 - (c) What do you mean by Syndrome?
 - (d) In which stage of meiosis synapsis takes place.
 - (e) Define Co-dominance.
 - (f) Expand CAMs and ECM.
 - (g) What is Cytoplasmic inheritance?
 - (h) What is Apoptosis?
 - (i) Define Pathogen.
 - (i) Define Epistasis.

SECTION - B

Answer **any four** of the following questions.

4x5=20

- **2.** Write a short note on multiple alleles.
- **3.** Explain briefly about the types and functions of Lysosomes.
- **4.** Explain the ultra structure of a Chromosome with the help of neat labelled diagram.
- **5.** Explain the ultra structure of nucleus and its functions.
- **6.** Explain First law of Mendel with example.
- 7. Write a short note on Down's Syndrome and Turner's Syndrome.

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SECTION - C

Answer any three of the following questions.

3x10=30

- **8.** Describe the effects of environment on gene expression.
- **9.** With the help of labelled diagram, explain the Ultra Structure of mitochondria. Add a note on its functions.
- 10. Explain genic balance theory of C.B. Bridges.
- 11. Explain Watson and Crick model of DNA with a neat labelled diagram.
- 12. Describe the life cycle and pathogenisity of Wuchararia bancrofti.

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