

Roll No _____

ZOO-I-001
B.Sc. I Semester (NEP) Degree Examination
ZOOLOGY
Cytology, Genetics and Infectious Diseases
Paper : DSCC5ZOOT1

Time : 2 Hours.**Maximum Marks : 60****Instructions to Candidates:**

1. Answer **All** Sections.
2. Draw diagram wherever necessary.

SECTION - A**1. Answer any FIVE of the following questions.****(5×2=10)**

- a) Write the functions of intermediate filaments.
- b) Expand ETS and write 3 steps of ETS.
- c) Mention different phases of cell cycle.
- d) State the principle of unit characters.
- e) What are Sex influenced characters? Give an example.
- f) Differentiate Karyotype and Karyotyping.
- g) What are pathogens? Name any two bacterial pathogens.

SECTION - B**Answer any FOUR of the following questions.****(4×5=20)**

2. Explain the structure and functions of ribosomes.
3. Describe the structure of t-RNA.
4. Write a note on cell apoptosis.

5. Describe the temperature dependent sex determination with an example.
6. Explain inheritance of ABO blood group in human.
7. Write the chromosomal Complement causes and symptoms of Turner Syndrome.

SECTION - C

Answer any THREE of the following questions.

(3×10=30)

8. Explain 'Fluid Mosaic Model' of cell membrane.
 9. Discuss the events of Meiosis-I.
 10. What is monohybrid cross? Explain with a suitable example.
 11. Describe the structure and life cycle of Giardia.
 12. What is sex-linked inheritance? Explain with an example.
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