Subject Code:

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SECTION-B

UNIT-I

- 2. Write a note on cytological basis of crossing over.
- 3. What is multiple allelomorphism? Explain with reference to antigen A and B in the blood group of man.

UNIT-H

- 4. Differentiate between the process of protein synthesis in prokaryotes and eukaryotes.
- 5. What is genetic code? Write down its properties and explain the wobble hypothesis.

UNIT-III

- What is positive and negative control of gene activity?Discuss with examples.
- 7. Write a note on extranuclear inheritance giving special reference to kappa particles in Paramecium.

UNIT-IV

- 8. Define recombinant DNA and discuss the role of:
 - (a) Restriction endonucleases
 - (b) Vectors http://www.gnduonline.com
 - (c) Plasmids in recombinant DNA technology.
- 9. Define Hardy-Weinberg Law. Discuss its salient features and mention the significance also.

B.A./B.Sc. 5th Semester

ZOOLOGY ZOO-V (B) (Genetics)

Time Allowed—3 Hours]

[Maximum Marks—35

1415

- Note: (1) Question 1 is compulsory and carries 7 short answer type questions of 1 mark each.
 - (2) The remaining 8 questions include two questions from each unit. Candidate is required to attempt 4 questions, one from each unit. Each question carries 7 marks.

SECTION-A

- 1. Define the following:
 - (a) Incomplete Linkage
 - (b) Incomplete Dominance
 - (c) Purines and Pyrimidines
 - (d) Semiconservative Replication
 - (e) Structural Genes
 - (f) Mutation and Mutagen
 - (g) Transduction.