

Exam. Code : 103205
Subject Code : 1344

B.A./B.Sc. 5th Semester
ZOOLOGY ZOO-VB (Genetics)

Time Allowed—3 Hours] [Maximum Marks—35

Note :- Attempt FIVE questions in all, selecting at least ONE question from each section. The fifth question may be attempted from any section. All questions carry equal marks.

SECTION-A

1. Distinguish between dominance, codominance, incomplete dominance. 7
2. What heredity principles can be drawn from a cross showing 9;3;3;1 ratio in the F₂ generation ? 7

SECTION-B

3. What do you understand by central dogma and central dogma reverse ? 7
4. Distinguish between the following :
(a) Codon and anticodon
(b) Leading and lagging strand. 7

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(Contd.)

SECTION-C

5. Write about extranuclear inheritance in Paramecium. 7
6. What do you understand by operon model of gene expression ? 7

SECTION-D

7. Give principle and applications of DNA fingerprinting. 7
8. Explain Hardy-Weinberg's law. 7

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