Exam. Code : 103205
Subject Code : 1366

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

ZOOLOGY ZOO-VB

(Genetics)

Time Allowed—3 Hours]   [Maximum Marks—35

Note :—(1)   Section A is compulsory and has **7** short answer
type questions (**1** mark each).

(2)   Section B has **8** questions including **two** from
each section. Candidate is required to attempt
4 questions one from each unit. **All** questions
have equal marks.

SECTION—A

1.   Define the following :

(a)   Linkage

(b)   Pseudoallelism

(c)   Genetic code

(d)   Overlapping genes

(e)   Somatic mutations

(f)   Operon

(g)   Transformation.   1×1=7

280(2118)/DAG-8521   1   (Contd.)

SECTION—B

UNIT–I

2. What is multiple allelism ? Explain with respect to blood groups of man. 7

3. Describe the process of linkage and give its significance. 7

UNIT–II

4. Differentiate between the process of transcription in prokaryotes and eukaryotes. 7

5. Write a note on the process of protein synthesis in prokaryotes. 7

UNIT–III

6. Write an essay on the inborn errors of metabolism in man. 7

7. Explain the extranuclear inheritance with the help of a suitable example. 7

UNIT–IV

8. Define Hardy Weinberg Law and discuss its salient features. 7

9. Write a note on the DNA fingerprinting. 7