SECTION-C

- 9. Short answer type questions :
 - (i) Allelic inheritance
 - (ii) Pseudogene
 - (iii) Pleiotropic gene
 - (iv) Multiple alleles
 - (v) Migration
 - (vi) Conjugation
 - (vii) Adaptation
 - (viii) Transduction.

Roll No.

Total No. of Pages : 2

PC 11481-NH

CS/2111 GENETICS-ZOO-302 Semester–V

Time Allowed : Three Hours]

[Maximum Marks : 40

Note :- Sections A and B consist of 8 questions (4 questions in each section) of 6 marks each and candidates should answer *two* questions from each Section. Section C is compulsory having 8 questions of 2 marks each.

SECTION-A

- 1. Discuss gene modifications due to incomplete dominance with suitable examples.
- 2. Calculate 9:6:1 F_2 ratio based on Mendelian inheritance.
- 3. Explain multiple alleles with suitable examples.
- 4. Discuss inheritance of skin colour in man.

SECTION-B

- 5. Discuss extranuclear inheritance of Kappa particles in *Paramecium*.
- 6. Explain role of Hardy Weinberg law in evolution.
- 7. Write about recombinant DNA technology and its applications.
- 8. Discuss genetic cloning and its applications in medicine.

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11481-NH/CS/2410/YC-9337

2