

Roll No.

Total Pages : 2

CMDE/D-23

4407

FORENSIC BIOLOGY & SEROLOGY

Paper–M–FSC–103

Time allowed : 3 Hours]

[Maximum Marks : 80

Note : Attempt **five** questions in all, selecting **one** question from each unit. Question No. **1** is compulsory.

Compulsory Question

1. Explain the following: 8×2=16

- (i) Diatoms.
- (ii) Preservative for liquid blood.
- (iii) Forensic palynology.
- (iv) Absorption elution method for ABO typing.
- (v) Racial difference in human hair.
- (vi) Poaching.
- (vii) Extinct species.
- (viii) Physical features of soft wood.

UNIT–I

2. Give a detailed account on the following:

- (a) Composition of human blood. 8
- (b) Cell surface markers of RBCs. 8

3. Explain the following:

- (a) Human growth cycle. 6
- (b) Difference between human and animal hair. 5
- (c) Forensic significance of hair. 5

UNIT–II

- 4. What is forensic entomology? Give a detail note on insects of forensic significance. 16
- 5. What is bioterrorism? Give a detail note on use of microorganisms in bioterrorism and explain forensic investigation of bioterrorism. 16

UNIT–III

- 6. Explain the structure and classification of diatoms. Describe the methods for identification and comparison of diatom evidence. 16
- 7. What is wood database? Describe the physical and microscopic details on wood evidence. 16

UNIT–IV

- 8. Explain the section of IWA 1972 dealing with animal poaching and wildlife trading. 16
- 9. What is wildlife crime? Give a detailed account on scientific procedure of investigation of wildlife crime. 16