

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