

C 42774

(Pages : 2)

Name.....

Reg. No.....

**SECOND SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, APRIL 2023**

(CBCSS)

Forensic Science

FSC 2C 10—FORENSIC BIOLOGY, SEROLOGY AND DNA PROFILING

(2020 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

**Part A**I. Answer any *four* of the following. Short Answer Questions :

- 1 What are the benefits and limitations of DNA profiling ?
- 2 Describe Exhumation.
- 3 What are the signs of death ?
- 4 Define monoclonal Antibodies giving examples.
- 5 Abrasions and Laceration.
- 6 Briefly explain the blotting Techniques.
- 7 Bombay blood group.

(4 × 2 = 8 weightage)

**Part B**II. Answer any *four* of the following. Short Essay Type Questions :

- 8 Explain different sources of DNA for investigation. How are they collected, transported and preserved ?
- 9 How can a forensic scientist associate a blood stain with an individual ?
- 10 Draw a neatly labelled Animal Cell.
- 11 Explain forensic significance of semen.
- 12 Explain composition, functions, and forensic significance of saliva.

**Turn over**

- 13 Write a brief note on DNA replication.
- 14 Natural and unnatural sexual offences.

(4 × 3 = 12 weightage)

**Part C**

III. Answer any *two* questions. Long Essay Type Questions :

- 15 Describe the morphological, anatomical, and microscopic examination of human hair.
- 16 Describe the types of PCR with their advantages and disadvantages.
- 17 Write a short note on Sexual Assault Investigation.
- 18 Elaborate the steps involved in the reconstruction of the crime scene with the aid of blood.

(2 × 5 = 10 weightage)