

B.Sc. Semester - 5 (CBCS) Examination
Oct/Nov. - 2022(Old Course)
FORENSIC PHYSICS (CORE)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

Q-1 (A) Answer in short: (04)

1. Write the locations at which the glass is found as evidence.
2. Define Soil.
3. The 4-R Rule is related with glass. True or False.
4. Write the elements used in production of borosilicate glass.

Q-1 (B) Answer any one in brief: (03)

1. Mention the important elements in glass production.
2. Write ignition test for soil.

Q-1 (C) Answer any one in detail: (07)

1. Write a note on forensic examination of glass.
2. Explain briefly the term soil profile.

Q-2 (A) Answer in short: (04)

1. Define: Gait pattern.
2. Write the composition of Wood's Metal.
3. Name the casting material used for collection of foot prints evidence.
4. Define: Skid marks.

Q-2 (B) Answer any one in brief: (03)

1. Explain the nature of foot print.
2. What are the specific problem in toolmarks?

Q-2(C) Answer any one in detail: (07)

1. Explain Forensic examination of footprints.
2. Write a note on collection & examination of tyre and skid mark.

Q-3 (A) Answer in short: (04)

1. Name the instruments used for elemental analysis of wire & cable.
2. Which technique used to measure tensile strength of string?
3. What is Engraving?
4. Name the methods of obliteration.

Q-3 (B) Answer any one in brief: (03)

1. Write the principle&scope for restoration of marks.
2. How to identity a counterfeited coin.

Q-3 (C) Answer any one in detail: (07)

1. Write Forensic Examination of Fibers.
2. Write a note on different methods of marking & obliteration.

Q-4 (A) Answer in short: (04)

1. What is active articulatory & passive articulatory? With Example
2. Write the types of tape alterations.
3. Name the methods used for speech enhancement.
4. Name the system take part in voice production.

Q-4 (B) Answer any one in brief: (03)

1. Explain Speech Enhancement.
2. Explain audio-video tape authentication.

Q-4 (C) Answer any one in detail: (07)

1. Write a note on Voice Production Theory.
2. Write the guidelines & precautions to be taken for the recording of speech sample for speaker recognition.

Q-5 (A) Answer in short: (04)

1. Full form: CCD & CMOS.
2. _____ is used for analysis of the paint.
3. Name the Types of lenses.
4. What is Crime Scene Photography?

Q-5 (B) Answer any one in brief: (03)

1. Explain the main components of Paint.
2. Write a note on the categories of paint.

Q-5 (C) Answer any one in detail: (07)

1. Write a brief note on types of lenses.
2. Explain the types of Cameras
