



SANJEEV AGRAWAL GLOBAL EDUCATIONAL UNIVERSITY, BHOPAL

**MID SEMESTER TEST II**

**Autumn 2024-25(Jan 2025)**

**Name of Program -PhD**

**Course Name – DSE Forensic Science**

**Course Code - FS22P104**

**Max. Duration: 1.5 hrs.**

**Max. Marks: 30**

**SECTION - A**

**1. Objective Type Questions (ALL QUESTIONS ARE COMPULSORY) (5X1 = 05)**

- a. Which of the following preservative is required for packing of bone?
  - i. NaF
  - ii. Distil water
  - iii. Heparin
  - iv. None
- b. What is the primary objective of forensic science?
  - i. To solve mathematical equations
  - ii. To investigate crime scenes
  - iii. To apply scientific methods to legal system
  - iv. To conduct laboratory research on new drugs
- c. Which among the following correctly explains occlusal surface?
  - i. Biting edge of anterior teeth
  - ii. Surface towards the teeth
  - iii. Chewing surface of posterior teeth
  - iv. All of these
- d. Ninhydrin is used for:
  - i. Make gunpowder mixture
  - ii. Identify the type of fiber
  - iii. Develop latent fingerprints
  - iv. Identify barbiturates
- e. Which of the following is child dental formula?
  - i. 2123/2123
  - ii. 2120/2120
  - iii. 2102/2102
  - iv. None of the above

**SECTION – B**

**2. Short Answer Type Questions (Attempt any THREE) (3X5 =15)**

- a. Write a note on circumstantial evidences
- b. How will you collect and preserve vitreous humor?
- c. Define ICP-AES and explain its importance in forensic Science.
- d. Highlight the various applications of Video spectral comparator in forensic science
- e. What do you understand about Jablonski diagram in spectroscopy?

**SECTION – C**

**3. Long Answer Type Questions (Attempt any ONE) (1X10 =10)**

- a. Discuss the different sub-branches of forensic physical sciences.
- b. Write a note on digital footprints and associate it with any reputed case study

