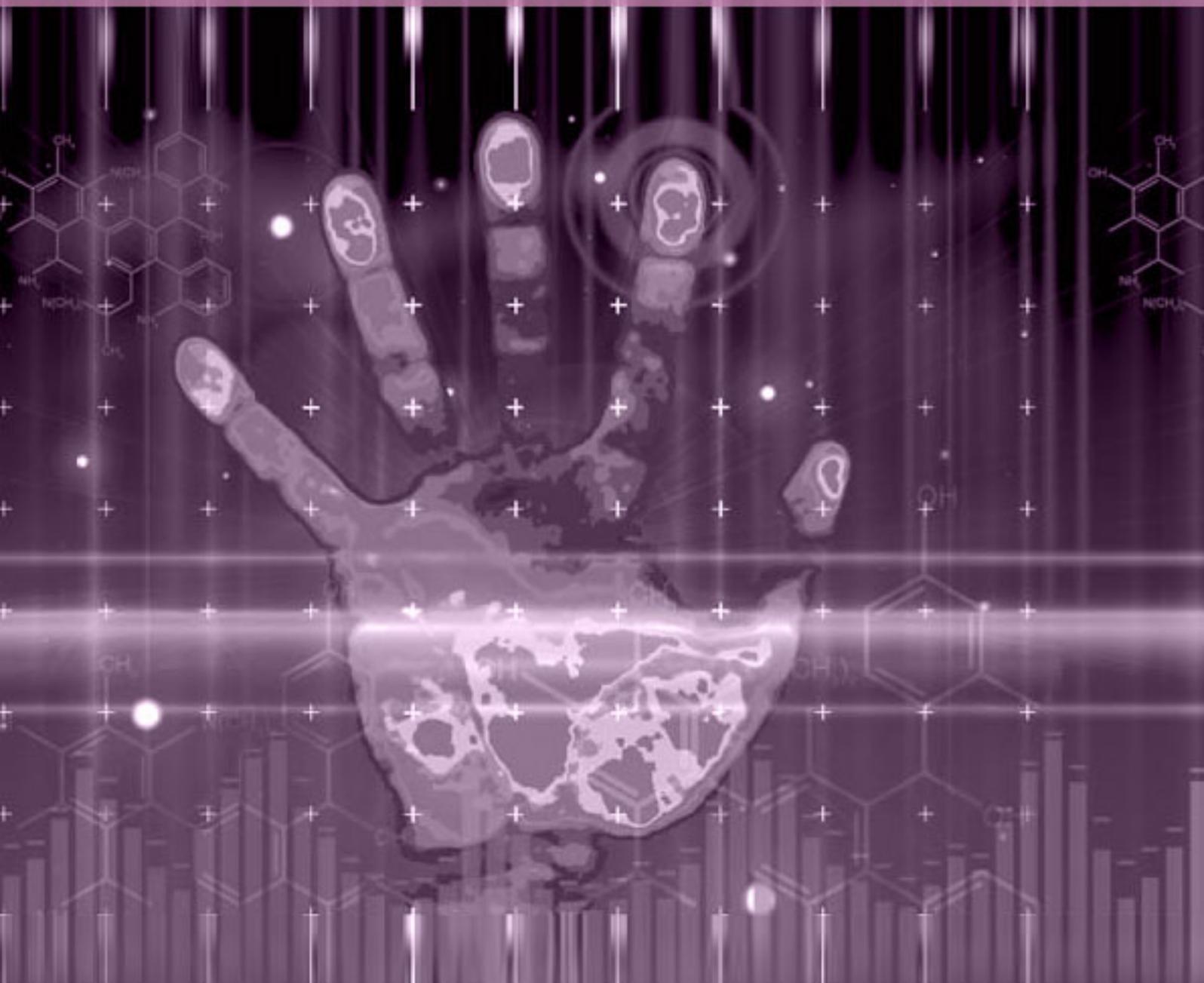


CBSE UGC NET

Previous Year 2012-14



Solved Question Papers
Forensic Science Paper-III
(June-Dec)

CBSE NET Forensic-Science June-2012 Solved Paper III

- 1. The book entitled “An Introduction to Criminalistics” was written by
 - a. Hans Gross
 - b. Soderman
 - c. Paul Kirk
 - d. Osterburg & OHara

Answer: d

2. Following are the essential points in a proper sketch of scene of crime
 - a. North direction
 - b. Scale
 - c. Legend
 - d. All of the above

Answer: d

3. The suitable control sample in case of blood stained soil is usually taken within the distance of _____ from spot.
 - a. 3 inches
 - b. 1 foot
 - c. 2 feet
 - d. 3 feet

Answer: a

4. In an air crash case, the following method of survey is most useful.
 - a. Strip method
 - b. Spiral method
 - c. Zonal method

d. Wheel method

Answer: d

5. Match the following:

List-I

- a. William Herschel
- b. Osborn
- c. Krogman
- d. Hatcher

List-II

- a. Forensic Ballistics
- b. Forensic Anthropology
- c. Finger print
- d. Questioned document

A B C D

a. 3 4 2 1

b. 2 1 3 4

c. 4 3 2 1

d. 1 2 4 3

Answer: a

6. Bevelling of a wound is seen in the following injuries.

- a. Contusion
- b. Laceration
- c. Abrasion
- d. Incised wound

Answer: d

7. Choose the correct answer: The steps of investigation in proper sequence is:

- a. Protection of crime scene, interview of witness, photography of crime scene, collection and dispatch of physical evidence

- b. Photography of crime scene, protection of crime scene, interview of witness, collection and dispatch of physical evidence.
- c. Protection of crime scene, photography of crime scene, collection and dispatch of physical evidence, interview of witness
- d. Interview of witness, photography of crime scene, collection and dispatch of physical evidence, protection of crime scene

Answer: c

8. Spin-spin coupling is observed in

- a. Raman Spectroscopy
- b. Neutron Activation Analysis
- c. Mass spectrometry
- d. NMR

Answer: d

9. In XRF spectrometry, the excitation source is

- a. Electron Gun
- b. X-ray tube
- c. Proton gun
- d. Neutron gun

Answer: b

10. Electrode less Discharge Lamp (EDL) is used in

- a. Atomic Absorption Spectrometer
- b. Atomic Emission Spectrometer
- c. Infra-red Spectrometer
- d. X-ray Fluorescence Spectrometer

Answer: a

11. Basic requirements of a monochromator are

- a. Resolution
- b. Spectral Range
- c. Dispersion

d. All of the above

Answer: d

12. Following technique provides a unique fingerprint of a chemical structure:

- a. IR Spectrometry
- b. UV Spectrometry
- c. NIR Spectrometry
- d. Visible Spectrometry

Answer: a

13. Mass Spectrometry requires the sample to be in:

- a. Liquid state
- b. Vapour state
- c. Solid state
- d. Semisolid state

Answer: b

14. Following detector in HPLC generates structural and molecular weight information about the eluted solute:

- a. Electrochemical detector
- b. Fluorescence detector
- c. MS detector
- d. RI detector

Answer: c

15. First systematic presentation of Neutron activation analysis method was made by:

- a. Clarke and Overman
- b. Martin and Synge
- c. Henry and Pascal
- d. Piobert and Pascal

Answer: a

16. Radiations emitted by radioactive elements are

- a. Alpha rays
- b. Gamma rays
- c. Beta rays
- d. All of the above

Answer: d

17. Maintenance of the correct number of chromosomes in cell division (mitosis) is dependent on a process of

- a. DNA duplication
- b. DNA mutation
- c. Single nucleotide polymorphism
- d. All of the above

Answer: a

18. The following is not red cell isoenzymes:

- a. Adenosine deaminase
- b. Transferrin
- c. Glutamate pyruvate transaminase
- d. Phosphoglucomutase

Answer: b

19. Which of the following is involved in human body's immune system?

- a. WBC
- b. RBC
- c. Thrombocytes
- d. Serum

Answer: a

20. One of the options mentioned is not a step involved in PCR technique:

- a. Annealing
- b. Deuaturation
- c. Extension of nucleotides

d. Southern blotting

Answer: d

21. • **Assertion (A):** Detailed note should be recorded regarding the amount of blood found/splattered at the scene of occurrence.
- **Reason (R):** It would help to evaluate about the length of survival of the victim after assault.
- a. Both A and R are correct.
 - b. A is correct but R is incorrect.
 - c. A is incorrect but R is correct.
 - d. Both A and R are incorrect.

Answer: a

22. The main ingredient of Mandrax is

- a. PCP
- b. STP
- c. Methaqualone
- d. GHB

Answer: c

23. Dry ashing method is used for the extraction of following poisons from viscera:

- a. Organic volatile
- b. Organic non-volatile
- c. Metallic
- d. None of the above

Answer: c

24. Following color test is applied for the detection of opiates:

- a. Marquis
- b. Mecke
- c. Froehde's
- d. All of the above

Answer: b

25. Lysergic acid is found in

- a. Ergot fungus
- b. Psilocybe mexicana
- c. Lophophora Williamsii
- d. Argemone mexicana

Answer: a

26. Screening tests are performed for

- a. Tentative identification
- b. Definite identification
- c. Quantitative analysis
- d. Semiquantitative analysis

Answer: a

27. The combination of the following liquids is most suitable in the density gradient column:

- a. bromoform and phenol
- b. bromobenzene and methanol
- c. bromoform and bromobenzene
- d. bromoform, benzene and phenol

Answer: c

28. Mc Naughten, who shot Edward Drummond was suffering from delusion of

- a. Infidelity
- b. Persecution
- c. Poverty
- d. Nihilism

Answer: b

29. 'Stass-Otto' process is used for:

- a. Extraction of poisons
- b. Extraction of DNA

- c. Extraction of antigens
- d. Isolation of compliments

Answer: a

30. Following is active principle of Abrus:

- a. Abrin
- b. Adbrin
- c. Abrinine
- d. Abricodine

Answer: a

31. In case of poisoning of living persons, the following are preserved, except:

- a. Vomit
- b. Excereta
- c. Stomach wash
- d. Unsoiled clothings

Answer: d

32. The following wounds will heal without a scar formation:

- a. Abrasion
- b. Laceration
- c. Chop wound
- d. Stab wound

Answer: a

33. In firing case muzzle pattern is found in

- a. Contact fire
- b. Firing from 4 ft
- c. Firing from 8 ft
- d. Long distance firing

Answer: a

34. Burning, blackening and tattooing are useful for determination of

- a. Time of fire
- b. Distance of fire
- c. Ricocheting of bullet
- d. None of the above

Answer: b

35. Pump action of a firearm is also called

- a. Lever action
- b. Bolt action
- c. Trombone action
- d. Air action

Answer: c

36. Ricochet of bullet means

- a. Penetration of bullet
- b. Deflection of bullet
- c. Unfired bullet
- d. Tandem bullet

Answer: b

37. Fouling is useful in determination of approximate

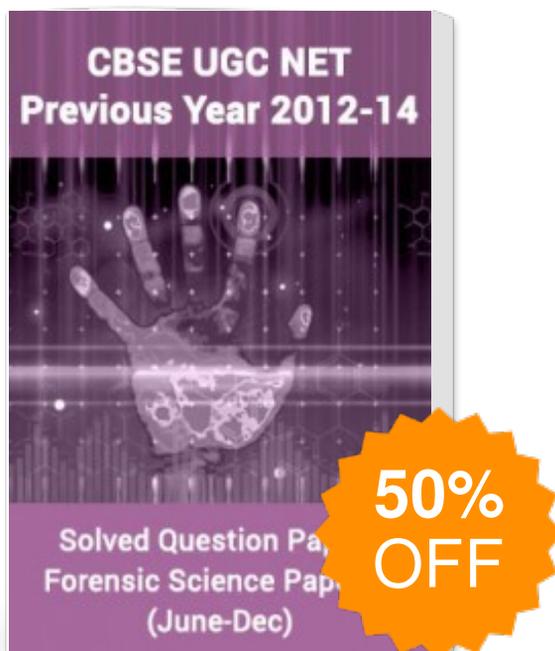
- a. Distance of fire
- b. Time of fire
- c. Penetration of projectile
- d. Velocity of projectile

Answer: b

38. Amatol contains

- a. TNT and RDX
- b. TNT and Tetryl
- c. TNT and PETN

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