

B.Sc. (FS) Semester - 4 (CBCS) Examination
March/April-2024 [NEW COURSE]
Forensic Science (Core)

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

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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Que.1(A) Answer in short. (04)

1. In flame automizer which fame is used?
2. Write the formula for Beer's law.
3. Full form of DTA_____.
4. _____ frequency wave is used in NMR for transition.

Que.1(B) Answer any one in brief. (03)

1. Write the principle of NMR.
2. Write the principle of AAS.

Que.1(C) Answer any one in detail. (07)

1. Write a note on: (i.) DTA & (ii.) DSC
2. Explain the instrumentation of AAS.

Que.2(A) Answer in short. (04)

1. T-cells are derived from _____.
2. Most antibody in serum are in the _____ class.
3. Defect in one or more components of Immune system can lead to _____.
4. Full form of AIDS _____.

Que.2(B) Answer any one in brief. (03)

1. Explain: Immuno-electrophoresis method.
2. Explain: Cell Mediated Immunity.

Que.2(C) Answer any one in detail. (07)

1. Explain the term: Antibody.
2. Write a note on ELISA.

Que.3(A) Answer in short. (04)

1. Write the chemical name of Phenolphthalein.
2. Name the type of char pattern in arson case.
3. What are the element of fire?
4. Write the list of petroleum products.

Que.3(B) Answer any one in brief. (03)

1. Explain the chromatographic method for the detection of adulteration in petrol.
2. Write the chemistry of Anthracene.

- Que.3(C) Answer any one in detail. (07)
1. Write brief note on Arson.
 2. Write a note on Petrol & its forensic analysis.
- Que.4(A) Answer in short. (04)
1. Define: Document.
 2. Full form of GEQD_____.
 3. Name the different types of payment cards.
 4. Motif of _____ in Indian 500₹ currency note.
- Que.4(B) Answer any one in brief. (03)
1. How to care & handle the document as evidence?
 2. Write the characteristics of genuine currency note.
- Que.4(C) Answer any one in detail. (07)
1. Explain the forensic examination of Indian Passport.
 2. What is tampering? & Explain its types.
- Que.5(A) Answer in short. (04)
1. Give the examples of Cyber Crime.
 2. In India cyber Crime are registered under which Act?
 3. What is Digitalization?
 4. Name the different types of digital payment system.
- Que.5(B) Answer any one in brief. (03)
1. Write the advantages of digital payment.
 2. What is Spoofing; Sniffing; Cracking?
- Que.5(C) Answer any one in detail. (07)
1. Write a note on AEPS & E-Wallets for digital payment.
 2. Write a note on Desktop Security & Mobile Security.
