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Total No. of Pages : 02

Total No. of Questions : 11

B.Sc. (Forensic Sciences) (Sem.-3)
TECHNOLOGICAL METHODS IN FORENSIC SCIENCE

Subject Code : BFS-302-21

M.Code : 92492

Date of Examination : 14-12-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of EIGHT questions carrying TWO marks each.
2. SECTION-B contains EIGHT questions carrying FOUR marks each and students have to attempt any SIX questions.
3. SECTION-C will comprise of two compulsory questions with internal choice in both these questions. Each question carries TEN marks.

SECTION-A

1. Answer briefly :

- a) Spectroscopic methods
- b) TLC
- c) Ultraviolet region
- d) Non-destructive techniques
- e) Microscopy
- f) Photography
- g) Forensic importance of quantitative analysis
- h) Role of pH in electrophoresis.

SECTION-B

2. Explain the fundamental principle of Gas chromatography.

3. Write note on sample preparation of Chromatographic methods.
4. Discuss the basic principle of AES.
5. Write note on Digital photography.
6. Write note on photographic evidences.
7. Describe the importance of X-ray spectrometry.
8. Write note on mass spectroscopy.
9. Discuss the importance liquid chromatography.

SECTION-C

10. Discuss in detail the principle and applications of UV and IR photography in crime detection.

OR

Discuss the principle and applications of Neutron Activation analysis in Forensic cases, give examples.

11. Which of the instrument can be used to analyze the paint sample to get best results forensically, and why?

OR

Discuss in detail the basic principle and applications of different types of microscopes to forensic case work.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.