

**M.Sc. SEMESTER II ONLINE EXAMINATION, 2021
DEPARTMENT OF TOXICOLOGY
Paper – MTX 202**

PAPER TITLE : FORENSIC TOXICOLOGY

Time : Three Hours

Maximum Marks : 75

Attempt any FIVE questions. Question No.1 is Compulsory. All parts of a question must be attempted in continuation. Start answer of a fresh question on a new page. Cite examples and draw labeled diagrams.

Question No. 1:

Give brief answers to the following questions.

[1½x10=15]

- a) The presence of narcotics drugs can be confirmed by UV/Visible spectrum from their
- b) What is magnification in microscopy?
- c) What is full form of (i) SEM (ii) TEM (iii) FTIR
- d) Preservation of urine sample is done by
- e) SIDS stands for
- f) is used as a preservative for Forensic samples
- g) The Narcotic Drugs and Psychotropic Substance Act was given in the year.....
- h) Sir Alec Jeffreys developed the first DNA profiling test in the year
- i) WMD stands for
- j) Define parasuicide

Question No. 2:

Write short notes on (any THREE):

[5x3=15]

- a) Forensic science in Indian scenario
- b) Specialized units associated with forensic sciences
- c) Types of inquests
- d) Courts in India
- e) Importance of biological evidence in Forensic Sciences

Question No. 3:

Briefly describe (any THREE):

[5x3=15]

- a) Poison and its classification
- b) Routes of administration
- c) Techniques of Determination of Blood groups of Blood Stains
- d) Collection and preservation of biological specimens
- e) DNA Fingerprinting

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Question No. 4:

Answer any THREE questions

[5x3=15]

- a) Principle and Application of FTIR or UV/Visible spectroscopy
- b) What are different types of Microscopes. Define each in short
- c) Write short note on any two (i) Affinity Chromatography, (ii) Ion Exchange chromatography (iii) Gel filtration Chromatography
- d) Discuss principle and Application of Electron Microscopy

Question No. 5:

Write short notes on (any THREE):

[5x3=15]

- a) Modes & Manner of deaths
- b) Sexual offences and its medicolegal importance
- c) Post – mortem examination and Post – mortem changes
- d) Estimation of time since death
- e) Injuries & Wounds

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