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Total No. of Printed Pages: 1

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**B.Sc. (Hons) Forensic Science (Semester: 5<sup>th</sup>)**  
**FORENSIC TOXICOLOGY**  
**Subject Code: BHFSS1-502**  
**Paper ID: [21132220]**

**Time: 03 Hours**

**Maximum Marks: 60**

**Instruction for candidates:**

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

**Section – A**

**(2 marks each)**

Q1. Attempt the following:

- a. Define 'Lethal dose<sub>50</sub>'
- b. How immunoassays help in forensic work?
- c. What are Clandestine drug laboratories.
- d. What are the symptom of Co poisoning?
- e. What is meant by Dope test?
- f. What role does TLC play in forensic analysis?
- g. Define tolerance. How does drug tolerance develop?
- h. What is hemp?
- i. How morphine is different from heroin?
- j. Name the Major constituents of crude morphine samples

**Section – B**

**(5 marks each)**

- Q2. How the collection and preservation of viscera is done for various poison cases?
- Q3. Elaborate the analysis and identification of ethyl alcohol in illicit liquors.
- Q4. What are designer drugs? How these drugs are analysed using various methods?
- Q5. What are the general characteristics and common examples of stimulants and depressants
- Q6. How the Microcrystalline testing of abusive substances is carried out.

**Section – C**

**(10 marks each)**

- Q7. Elaborate the classification of poisons on the basis of physico-chemical characteristics and mode of action of poisons.
- Q8. (a)How barbiturate derivatives are synthetically produced?  
(b) Explain forensic analysis of barbiturates and barbiturate derivatives?
- Q9. How the analysis of narcotic drugs and psychotropic substances is done in post-mortem blood