Roll No…….. **Total No. of Printed Pages: 1**

Total No. of Questions: [09]

B.Sc. (Hons) Forensic Science (Semester: 5th)
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 dose50'
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