



QP CODE: 21100050

Reg No :

Name :

UNDERGRADUATE (CBCS) EXAMINATION, FEBRUARY 2021

Fifth Semester

(Offered by the Board of Studies in Chemistry)

Open Course - CH5OPT03 - FORENSIC SCIENCE

2017 Admission Onwards

63BBF194

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Define poison. Give an example.
2. Mention any two toxic heavy metals present in a sea food. What are their effects in human body?
3. How does the presence of arsenic in hair help to detect the period of poisoning?
4. What is PETN? Give its use.
5. What are timed bombs?
6. Write any two inherent signs of forged signatures.
7. Name the stone that is mainly used instead of diamond.
Write one method to find out the authenticity of diamond.
8. What is meant by search and rescue dogs?
9. How many paint coatings are used in the automotive finishing system for steel?
10. Write the full form of AIDS. How can it be prevented?
11. What is external ballistics? How it differ from internal ballistics?
12. What are the factors affecting the bullets flight?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*



13. How can you identify the poisons from the postmortem appearance of internal organs?
14. Explain the reasons for accidental explosion. What are the precautions to be taken to avoid it?
15. Explain the distance determination of the gunshot.
16. What do you mean by signature forgery?
How simulated forgery differ from traced forgery?
17. What is BIS hallmarking? Write briefly any one method to detect the purity of gold .
18. Write short notes on tyre marks and shoe prints.
19. How does forensic examiner collect and preserve fibre evidence?
20. How do you analyse the metabolites using Gas Chromatography and Mass Spectrometry?
21. Write a short note on the chemistry of combustion.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain the general treatments and antidotes provided for a poisoning case.
23. Explain the detection of spill of toxic chemicals.
24. Explain the use of AAS in alloy analysis to detect counterfeit coins.
25. Hair evidence is important in the forensic science. Explain.

(2×15=30)

