

CBD-5337-W**B. Sc. (Fourth Semester)****(End Semester) EXAMINATION, 2022****FORENSIC SCIENCE****FSC-CC-411****(Introduction to Forensic Chemistry
and Forensic Biology)***Time : Three Hours] [Maximum Marks : 60*

Note : The question paper is divided into three Sections. Attempt the questions as per direction.

Section—A**(Objective Type Questions)**

Note : Choose the correct answer. Each question carries 1 mark. $10 \times 1 = 10$

1. Domestic kerosene is blue in color due to :

(a) Eosine

(b) Coomassie blue

(c) Oil Blue 35

(d) Anthracene

2. The major characteristics of petrol include :

(a) Density

(b) Anti-knock index

(c) Both of the above

(d) Research octane number

3. Which of the following is derived from hemp plant *Cannabis sativa* ?

(a) Opium

(b) Marijuana

(c) MDMA

(d) Crack

4. Which of the following is not a hallucinogenic ?

(a) Cannabis

(b) MDMA

(c) LSD

(d) Antibiotics

5. The field of Forensic Palynology is the study of :
- (a) Polymer evidence to help solve criminal cases.
 - (b) Cellulose evidence to help solve criminal cases.
 - (c) Pollen and spore evidence to help solve criminal cases.
 - (d) None of the above
6. The male part of the flower is known as :
- (a) Stamen
 - (b) Pistil
 - (c) Ovary
 - (d) Petal
7. The mature stage of human hair is known as :
- (a) Anagen
 - (b) Catagen
 - (c) Telogen
 - (d) None of the above

8. Ptyalin test is used to detect :
- (a) Semen
 - (b) Saliva
 - (c) Blood
 - (d) None of the above
9. DNA fingerprinting was developed by :
- (a) Francis Crick
 - (b) Khorana
 - (c) Alec Jeffrey
 - (d) James Watson
10. DNA fingerprint relies on :
- (a) Difference in patterns of genes between individuals.
 - (b) Difference in order of genes between individuals.
 - (c) Difference in junk DNA pattern between individuals.
 - (d) All of the above

Section—B**(Short Answer Type Questions)**

Note : Attempt any *four* questions. Each question carries 5 marks. $4 \times 5 = 20$

1. Write a short note on distillation and fractionation of petroleum products.
2. Classify different types of narcotic drugs.
3. Write a short note on significance of diatom in drowning.
4. Write any *two* tests for saliva.
5. Write any *two* tests for blood.
6. Draw a well labelled structure of DNA.

Section—C**(Long Answer Type Questions)**

Note : Attempt any *three* questions. Each question carries 10 marks. $3 \times 10 = 30$

1. Explain analysis of alcohol and non-alcohol beverages.
2. Explain drug abuse in sports.

3. Explain the significance of pollen and woods in Forensic Science.
4. Explain hair and its anatomy and significance in Forensic Science.
5. Explain RFLP and PCR.

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