

B.Sc. Semester - 1 (CBCS) Examination
Oct/Nov. -2019 (NEW COURSE)
FORENSIC SCIENCE (CORE)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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Q1 (A) Answer in short: (04)

1. Mention types of fingerprint patterns.
2. How many RFSs are there in Gujarat state?
3. Who proposed the principle of exchange?
4. Give the full form of WAN.

Q1 (B) Answer any one in brief: (03)

1. Enlist the evidence received by Questioned Documents division.
2. State the law of individuality in detail.

Q1 (C) Answer any one in detail: (07)

1. Write a note on working of physics division in detail.
2. Draw the flow chart of the organizational structure of FSLs.

Q2 (A) Answer in short: (04)

1. Who is considered as father of forensic toxicology?
2. Which evidences are sent to prohibition and possession division?
3. What is an explosive?
4. What is the normal amount of alcohol in human blood?

Q2 (B) Answer any one in brief: (03)

1. Enlist the types of samples and preservative methods used for toxicological samples.
2. Write a brief note on narcotic drugs and psychotropic substances.

Q2 (C) Answer any one in detail: (07)

1. Explain the working of chemistry and sub-divisions in detail.
2. Enlist the evidence sent to chemistry division and type of analysis done.

Q3 (A) Answer in short: (04)

1. Write the full form of DNA.
2. What does BEOS stand for?
3. Who is the father of forensic anthropology?
4. What is the main application of forensic entomology?

Q3 (B) Answer any one in brief: (03)

1. Which samples related to wildlife are sent for analysis in forensic biology division and under what cases?
2. Explain the working of serology division in brief.

Q3 (C) Answer any one in detail: (07)

1. Write a note on homeland security and antiterrorism.
2. Write a detailed note on evidence sent to biology division and pertaining to what issues.

Q4 (A) Answer in short: (04)

1. Define crime.
2. What is meant by modus operandi?
3. Mention types of evidence.
4. Enlist major factors causing crime.

Q4 (B) Answer any one in brief: (03)

1. Give the classification of crime scene.
2. Write a note on blood pattern based on velocity of impact.

Q4 (C) Answer any one in detail: (07)

1. Write a note on searching of crime scene.
2. Explain the techniques of collection of evidence in detail.

Q5 (A) Answer in short: (04)

1. Mention types of electron microscopes.
2. In which cell organelle is maternal DNA found?
3. What are the types of endoplasmic reticulum?
4. Define resolution.

Q5 (B) Answer any one in brief: (03)

1. Explain principles of microscopy in brief.
2. Differentiate between plant cell and animal cell.

Q5 (C) Answer any one in detail: (07)

1. Make a flow chart format of microscopes and explain the construction of compound microscope in detail.
2. Write a note on Nucleus of the cell.
