

**GUJARAT NATIONAL LAW UNIVERSITY
GANDHINAGAR**

**Course: Nano Technology and Forensic Chemistry
Semester- IV (Batch: 2019-24)**

End Semester Online Examination: July-August 2021

Date: 07th August, 2021

Duration: 8 hours

Max. Marks: 40

Instructions:

- The respective marks for each question are indicated in-line.
- Indicate correct question numbers in front of the answer.
- No questions or clarification can be sought during the exam period, answer as it is, giving reason, if any.
- Draw the diagrams only with pencil. Cite the sources of all the answers.
- Word Limit: 10 Marks : 700-800 Words

- | | Marks |
|--|--------------------|
| <p>Q.1 Read the following case and answer :</p> <p>On April 19, 2020, a truck bomb exploded in front of the Cherry Blossom Building in Oklahoma City, Oklahoma. The bomb was improvised from ammonium nitrate fertilizer and nitromethane, which were put into the back of the truck and left to explode. It was the worst terrorist attack, killing 169 people. Explain the process for crime scene investigation for an IED explosion. Also suggest the tests for the confirmation of IED components.</p> | (10) |
| <p>Q.2 Read the following case and answer :</p> <p>A decomposed human body was noticed at the scene. The body was taken out and identified as Biswanath (aged 46- Male). Premji was suspected for his murder. Ashok Kumar Banerjee, Inspector of Kolkata Police also witnessed the said occurrence. With relation to the identification of the dead body and its autopsy. Biswanath was suspected to have an extra tooth and a burnt hair according to his missing mystery.</p> <p>a) Explain the role and scientific analysis of hair and other trace evidence in investigation.</p> <p>b) Explain the role and scientific analysis of BAC in framing the charges against Premji. Also, evaluate whether Biswanath was under the influence of alcohol at the time of death.</p> | (10+
10=
20) |
| <p>Q.3 Read the case and answer the following question-</p> <p>When David was 14 years old, he was well-mannered and well-groomed. Although disciplined by modern standards, his parents back in that time saw his hip insurgencies and racy lyrics as an indication of serious decent decline. When David went to the job, he began taking amphetamines. As he progressed in his career he got involved in stimulants drug overdose. Explain the steps of investigation for drug overdose, signs and symptoms and forensic analysis of stimulants.</p> | (10) |
