

**GUJARAT NATIONAL LAW UNIVERSITY
GANDHINAGAR**

Course: Forensic Science
Semester-V (Batch: 2017-22)

End Semester Examination: October-2019

Date: 25th October, 2019

Duration: 2 hours

Max. Marks: 40

Instructions:

- Read the questions properly and write the answers in the given answer book and mention proper question numbers.
- The respective marks for each question are indicated in-line.
- Do not write anything on the question paper.
- Draw diagrams only with a pencil.
- Indicate correct question numbers in front of the answers.
- No questions or clarifications can be sought during the test period, answer as it is, giving a reason if any.

Part-A

Marks

Q.1 Read the statement and answer **any two** of the following questions:

(2x4=
08)

A man was injured in an explosion at Hubli Railway Station in north Karnataka on October 21, 2019. The blast occurred when the man picked an unclaimed parcel at the station junction headquarter of the South Western Railway Zone is located. Sources said an unclaimed package was found in the unreserved compartment of the train from Vijaywada to Amaravati. The train was stopped at Hubballi. When a vendor named Hussaini picked up the bucket with the parcel and opened it, the blast took place at around 11:45 AM. Hussaini suffered minor injuries on his hand.

- (a) How will you determine that the bomb is an IED? What is the explosives chain of detonation?
- (b) Explain the classification of the explosives and mention the steps to secure the scene.
- (c) Explain any two types of circuit devices.

Q.2 Read the statement and answer **any two** of the following:

(2x4=
08)

In California, 41-year-old James Huberty, armed with a long-barreled Uzi, a pump-action shotgun and a handgun, shoots and kills 21 adults and children at a local McDonald's. A police sharpshooter kills Huberty one hour after the rampage begins. Multiple wounds were found on the bodies.

- (a) Determine the range of firing in the shotgun.
- (b) Explain the short gun family classification and the concept of caliber.
- (c) Explain the difference between the entry wound and the exit wound.

Q.3 Read the statement and answer the following questions:

(2x4=
08)

Sunil was arrested for the ransom to an aspiring actress. The deceased was identified as Riyan. According to the anonymous letter received at the scene of the crime, investigations suggest Riyan was murdered by the accused, Sunil, who allegedly shot her to death, stuffed her body in a suitcase and then dumped it in the sea near Malad, Mumbai. The incident was reported to the area police station and the letter was further

sent for examination to FSL along with reference writings of Sunil.

- (a) How will you establish the authorship in the questioned document?
- (b) Explain the difference between class characteristics and individual characteristics.

- Q.4 On February 21, 2019, Karl Stinson was on his Harley Davidson motorcycle. He spent the afternoon with other cyclists delivering toys to the local Children's Hospital. There was a procession of about 30 motorcycles, all heading west on State Highway 78. They were in tandem, riding two abreast. Stinson was approaching the intersection. The light was green in his favor. Then he began passing through the intersection. (04)

Angela Mura who had been waiting at the same intersection in the eastbound lane began turning left. As she did, the front right quarter panel of her pickup truck struck the rear wheel of Stinson's Harley Davidson. As the collision occurred, Stinson was thrown from his bike. He landed on the right shoulder of the westbound lane and died in 15 seconds of the incident.

Explain the tripod of life and medico-legal death.

- Q.5 Read the statement and answer the following questions: (2x2=04)

Tara aged 16 and her brother Jay aged 14 were on their way after celebrating the Uttarayan festival on January 14, 2019. It was drizzling so, they accepted lift from a car. Kuldeep Singh (alias Ranga) and Jasbir Singh (alias Billa) supposed that the victims were from a rich family and in their greed of money, they kidnapped them. When the brother and sister realized their intention, they struggled for the rescue. Many witnesses of the scene tried to stop the car and even informed the police station. The cops failed to perform their duty to rescue.

When the kidnappers came to know that their father was a naval officer, they thought of losing their chance to earn big money and killed both. Determine the Henry Primary Classification for recording their fingerprints recovered from the scene of the crime:

Accused 1:

a	U	u	w	u
w	A	w	a	u

Accused 2:

t	A	w	a	u
w	W	w	w	a

- Q.6 A 30-year-old man was found murdered near public toilets in Sector 20 of Chandigarh on August 22, 2019. Police said he was Sanjeev Kumar, a resident of Sector 25, used to work as a garbage collector and was living with his parents. He had separated from his wife and is survived by a son. Explain the steps for crime scene management. (03)

Part-B

- Q.7 A burglary took place in a house and the police was informed by the owner so as to investigate the matter. Enlist any four body signs that will be studied by the interrogators at the crime scene to identify the involvement of few suspects. (02)
- Q.8 What is the full form of PSE? Explain the mechanism involved in this method of psychological Test. Also state one advantage of this test over the hypnosis method. (03)
