

B.Sc. Semester - 6 (CBCS) Examination
May/June-2021 (NEW COURSE)
Forensic Ballistic and Explosives (Core)

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figure to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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- Q.1(A) Objective type questions (04)
1. Define ballistic.
 2. Which are the subdivisions of forensic ballistic?
 3. Define fire arm.
 4. Classify the firearms on the basis of bore characteristics.
- Q.1(B) Answer in detail (Any 1 out of 2) (03)
1. Give the classification of modern fire arm.
 2. Name of components of ballistic and define it.
- Q.1(C) Write a note on (Any 1 out of 2) (07)
1. Write a note on choking.
 2. Explain any five parts of shot gun fire arm.
- Q.2(A) Objective type questions (04)
1. Which chemical was first used as primer?
 2. The content of potassium nitrate in the black powder is _____%.
 3. Which component of propellant is known as gun cotton?
 4. Define barrel time.
- Q.2(B) Answer in detail (Any 1 out of 2) (03)
1. Basic ingredients of primer charge and composition of mercury fulminate as well as its draw backs.
 2. Explain heat problems observed during the study of internal ballistic
- Q.2(C) Write a note on (Any 1 out of 2) (07)
1. Explain recoil as a parameter of study of internal ballistic.
 2. Classification of bullets.
- Q.3(A) Objective type questions (04)
1. Define Yaw.
 2. Which factors affect the performance of bullet on leaving the barrel?
 3. Define tattooing.
 4. Define range of firearm.
- Q.3(B) Answer in detail (Any 1 out of 2) (03)
1. Characteristics of exit wound of fire arm injury.
 2. How the structure of projectile affect the trajectory of projectile.
- Q.3(C) Write a note on (Any 1 out of 2) (07)
1. Give only equation for range, vertex height, Drop, angle of fall and remaining velocity.
 2. Determination of range of fire on the basis of characteristics of entry wound of rifled firearm injury.

- Q.4(A) Objective type questions (Any Four) (04)
1. Locard's principle.
 2. Marks on Fired cartridge.
 3. Full form of IBIS.
 4. Bullet trax is used in IBIS to capture images of _____.
- Q.4(B) Answer in detail (Any 1 out of 2) (03)
1. Principle involved in the identification of firearms.
 2. Write a note on IBIS.
- Q.4(C) Write a note on (Any 1 out of 2) (07)
1. Marks observed on fired cartridge case.
 2. Write a note on BIDAS.
- Q.5(A) Objective type questions (Any Four) (04)
1. Full form of GSR.
 2. GSR distribution depends on_____.
 3. Give the example of explosive.
 4. Define explosive.
- Q.5(B) Answer in detail (Any 1 out of 2) (03)
1. Classification of explosive.
 2. Wet methods for the collection of GSR
- Q.5(C) Write a note on (Any 1 out of 2) (07)
1. Chemical test for the analysis of GSR.
 2. Post blast investigation of explosion site.
