

B.Sc. Semester - 6 (CBCS) Examination
May/June-2021 (OLD COURSE)
BALLISTIC AND EXPLOSIVE (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 forensic ballistic.
2. Which are the components of forensic ballistic?
3. Classify the firearms on the basis of loading characteristics.
4. Why choking is introduced in barrel?

Q.1(B) Answer in detail (Any 1 out of 2) (03)

1. Give the classification of shotgun family.
2. Define ballistic and define sub division of it.

Q.1(C) Write a note on (Any 1 out of 2) (07)

- 1 Explain any five parts of rifled fire arm.
- 2 Write a note on types of choking.

Q.2(A) Objective type questions (04)

1. The primer composition is very sensitive to the _____.
2. Define ammunition.
3. Who introduced dynamite?
4. Define lock time.

Q.2(B) Answer in detail (Any 1 out of 2) (03)

1. Write a note on jacketed bullets and its types.
2. Explain barrel fouling and how the magnitude of it can be reduced?

Q.2(C) Write a note on (Any 1 out of 2) (07)

1. Explains the powder grains
2. Explain heat problems observed during the study of internal ballistic.

Q.3(A) Objective type questions (04)

1. Define base drag.
2. Which factors affect the performance of bullet on leaving the barrel?
3. Define range of firearm.
4. Define tattooing.

- Q.3(B) Answer in detail (Any 1 out of 2) (03)
1. Explain vacuum trajectory and list out those parameters which are used to determine the trajectory.
 2. Characteristics of entry wound of fire arm injury.
- Q.3(C) Write a note on (Any 1 out of 2) (07)
1. Define external ballistics and list out the parameter of study of external ballistic.
 2. Determination of range of fire on the basis of characteristics of entry wound of shotgun firearm injury.
- Q.4(A) Objective type questions (04)
1. Full name of BDAS.
 2. Brass trax is used in IBIS to capture images of _____.
 3. Give the example of class characteristics.
 4. Locard's principle.
- 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 BIDAS.
- Q.4(C) Write a note on (Any 1 out of 2) (07)
1. Write a note on IBIS.
 2. Marks observed on fired cartridge case.
- Q.5(A) Objective type questions (04)
1. Full form of EDXRF.
 2. When GSR reacts with Di phenyl amine followed by con.H₂SO₄ it gives _____color of nitrate.
 3. Characteristics of explosive.
 4. Define velocity of detonation.
- Q.5(B) Answer in detail (Any 1 out of 2) (03)
1. Dry methods for the collection of GSR.
 2. Difference between high and low explosive
- Q.5(C) Write a note on (Any 1 out of 2) (07)
1. Define explosion, explosive, give the classification and example of explosive.
 2. Write a note on forensic analysis of GSR
