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SEAT No. \_\_\_\_\_

No of Printed Pages: 02

**SARDAR PATEL UNIVERSITY**  
**M.Sc. Semester –II (Forensic Science) Examination**  
**SATURDAY, 15<sup>th</sup>, APRIL, 2017**  
**PS02CFSC03: FORENSIC BALLISTICS**

TIME- 10.00AM - 01.00PM

TOTAL MARKS- 70

**Instructions:**

1. Answer of all the questions (including multiple choice questions) should be written in the provided answer book only.
2. All the questions are compulsory.
3. Figures to the right indicate maximum marks of the questions.

**Q-1 Multiple Choice Questions:****(8)**

1. \_\_\_\_\_ Part of gun brings a cartridge into firing chamber and can leave scratches on the cartridge case.
 

(a) Extractor	(b) Ejector
(c) Breech lock	(d) Safety
2. \_\_\_\_\_ is a type of long gun which fires bullet.
 

(a) Shotgun	(b) Pistol
(c) Revolver	(d) Rifle
3. A complete unfired unit consisting of a bullet, primer, cartridge case and gunpowder is known as \_\_\_\_\_.
 

(a) Projectile	(b) Cartridge
(c) Firearm	(d) Slug
4. A single bullet in a shotgun shell is \_\_\_\_\_.
 

(a) Shot	(b) Slug
(c) Gauge	(d) Bore
5. \_\_\_\_\_ Firearm propels projectiles less than one inch in diameter.
 

(a) Artillery	(b) Shoulder arm
(c) Small arm	(d) Machine gun
6. The term use to indicate bore diameter measured from two opposite land is \_\_\_\_\_.
 

(a) Gauge	(b) Measurement
(c) Rifling	(d) Caliber
7. \_\_\_\_\_ is the entry of the bullet on the target.
 

(a) Pull of gravity	(b) Air resistance
(c) Penetration	(d) Velocity
8. \_\_\_\_\_ is the sound created at the muzzle end of the gun barrel after explosion.
 

(a) Muzzle energy	(b) Trajectory
(c) Range	(d) Muzzle blast

**Q-2 Answer in Brief: (Attempt Any Seven)**

**(14)**

1. What is the difference between shotgun and rifle wound?
2. State the three main parts of IBIS.
3. What do you understand by the term 'Ammunition'?
4. Enlist shotgun projectiles.
5. Give the composition of smokeless powder in GSR.
6. Explain match lock guns.
7. What is Spin?
8. Explain charring.
9. Define the term Terminal ballistics.

**Q-3(A) Explain the action mechanism of rifle.**

**(06)**

**(B) Short note on: Nitrocellulose compound.**

**(06)**

**OR**

**(B) Draw and explain the constructional features of shotgun cartridge.**

**(06)**

**Q-4(A) Explain in detail the terms used in Trajectory with the help of diagram.**

**(06)**

**(B) Give the factors affecting Internal Ballistics.**

**(06)**

**OR**

**(B) Explain classification of Cartridge Cases.**

**(06)**

**Q-5(A) Write a short note on BDAS.**

**(06)**

**(B) Give tests for GSR (Any 3)**

**(06)**

**OR**

**(B) Explain collection of GSR.**

**(06)**

**Q-6(A) How does Range, Angle of fire and Intermediate target affects the shotgun wound?**

**(06)**

**(B) Explain Shotgun Wounds in case of different targets of body.**

**(06)**

**OR**

**(B) Describe Wounding Effect in case of different rifle firearms.**

**(06)**