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Seat No.:

(3	SARDAR PATEL UNIVERSITY				
	M. Sc. (Forensic Science) – Second Semester Examination (CBCS)				
	Friday, 13 <sup>th</sup> April, 2018 10:00 a.m. to 1:00 p.m.				
	PS02CFSC23: Forensic Ballistics				
Total Marks:					
No	ote: (1) Figures to the right indicate marks. (2) Draw a neat and labeled diagram, wherever necessary.				
	(2) Draw a near and rabeled diagram, wherever necessary.				
Q. 1	Choose the most appropriate answer from the four alternatives given: [08]				
i.	is a force of primary importance acting on a projectile.				
	a) Gravity b) Barrel fouling c) Base drag d) Mechanical force				
ii.	is credited with the conception of the term "Forensic Ballistics".				
	a) Henry Faulds b) Major Goddard c) Philip Gravelle d) John Fisher				
iii.	Early form of flintlock is called				
	a) Adnuance b) Nuance c) Snaphaunce d) Conuance				
iv.	The time when the projectile starts to move until it exits the barrel is called				
	a) Ignition time b) Barrel time c) Firing time d) Lock time				
v.	The common examples of gun propellants are				
	a) Nitrocellulose b) Mixture of nitrocellulose and nitroglycerine				
	c) Nitroguanidine d) All of these				
vi.	Range of close shot is centimeter.				
	a) 25 - 45 b) 10 - 30 c) 15 - 35 d) 20 - 40				
vii.	acid is used in the Walker's test for moistening of the filter paper.				
	a) Acetic b) Citric c) Hydrochloric d) Nitric				
viii.	"IBIS" stands for				
	a) International Ballistics Identification System				
	b) Integrated Ballistics Identification System				
	c) Integrated Ballistics Identification Symbol				

<u>P.T.O.</u>

d) Issue Based Identification System

		1	[1.4]
Q.2	Answer any SEVEN from the following:		[14]
i.	Explain muzzle loader firearm.		
ii.	Define the term ammunition.		
iii.	Why choking is done in shotgun barrel?		
iv.	What is ballistic coefficient?		
V.	Define yaw in terms of forensic ballistics.		
vi.	Write formulas for Range and Drop.		
vii.	What is ballistics gel? Write its importance?		
viii.	Define explosive wound and wads in terms of ballistics.		
ix.	Write significance of stereomicroscope in forensic ballistics.		
Q.3(a)	What is pin fire system and how it works?		<sub>&gt;</sub> [6]
(b)	Describe various types of bullets.		[6]
, ,	OR		
(b)	Explain barrel of rifled firearm with rifling techniques.		[6]
Q.4(a)	Describe various components of external ballistics.		[6]
(b)	Describe the factors affecting the internal ballistics.		[6]
. (1)	OR		
(b)	Write a detailed note on recoil of firearm.		[6]
0.5(1)	How the post mortem examination of human is done in case of shooting?		[6]
	0. 1.1.11.42		[6]
(b)	OR		
Œ.	1 and anit mound		[6]
(b)	Differentiate between chiralice would and balt would		
Q.6(a)	Discuss chemical tests for the evaluation of Gunshot residues.		[6]
(b)	The state of the state of CCD		[6]
	OR		
<b>(b</b> )	Explain BDAS with diagram.		[6]