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SEAT No.

No of printed pages: 02

## SARDAR PATEL UNIVERSITY

## M.Sc. (FORENSIC SCIENCE) Semester II-Examination Saturday, 23<sup>rd</sup> March-2019 PS02CFSC23-Forensic Ballistics

TIM	E- 10:00am -01:00pm		TOTAL MARKS-70		
	uctions:				
1. Fig	gures to the right indicate maxin	num marks of the questions.			
Q-1	Multiple choice question	ons:	[08]		
Q-1	1. Which substance is not present in composition of Modified cordite?				
	A) Nitroglycerine	C) Miner	ral Jelly		
	B) Nitrocellulose	D) Black	c Powder		
	2. The internal diameter of smooth bore barrel firearm is called				
	A) Bore	C) Both	a & b		
	B) Caliber	•	e of above		
	3. The time for which the hot gases are in contact with the barrel is about				
	sec.				
	A) 0.1	C) 0.001			
	B) 0.01	D) 0.000	01		
	4. Distance through which the projectile falls from fire line at certain range is called				
	A) Range	C) Drop	· · · · · · · · · · · · · · · · · · ·		
	B) Vertex	D) Drift	t		
	5. The charring also cal	lled .			
	A) Scorching	C) Sing	ing		
	B) Burning	D) All o	of above		
	6 What is the threshold	6. What is the threshold velocity for bone penetration?			
	A) 60 m/s	C) 40-5	60 m/s		
	B) 80 m/s		-120 m/s		
	7. Which instrumental technique is not used for GSR?				
•		C) NA	A		
	A) GC B) AAS	D) TEN			
	8. Comparison microscopes image is examined through				
	A) Micro fluorescent	t attachment	escopic micro attachment		
	B) Electron micro at		se micro attachment		
	-,				



Q-2			
	1. Enlist various types of rifling techniques	[14]	
	2. Explain wheel lock action in rifled firearm	•	
	3. Write a short note on progressive powder in ammunition		
	4. What is reconet?	· .	
	5. Enlist various factors affecting on Internal Ballistics.		
	o. Write about the intermediate target in Wound Rallisting		
	7. Give the definition of (i) Blackening (ii) Tattooing	•	
	<b>8.</b> What is the working principle of comparison microscope?		
	9. Define GSR and its mechanism.		
Q-3	A] Write a note on rifled cartridge.		
	B] Explain all types of bullets used in firearms.	[06]	
	OR	[06]	
	B] Classify the various types of cartridge cases.	F0.61	
		[06]	
Q-4	A] Explain recoil in terms of Internal Ballistics.		
	B] Write a short note on: External Ballistics.	[06]	
	OR	[06]	
	B] Describe the factors affecting on the internal ballistic.	[06]	
o -		[06]	
Q-5	A] Give the elements of Wound Ballistics.	[06]	
	B] Discuss the difference between entry and exit wound.	[06]	
	$\mathbf{OR}$	[ooi	
	B] How to do postmortem examination in firearm cases?	[06]	
Q-6	Al Describe the evening in the	[]	
<b>V</b> -0	A] Describe the examination of Gun Shot Residue (GSR).	[06]	
	B] Explain BDAS in Forensic Ballistics.	[06]	
	OR Bl Give the various types of marks property and the control of	•••	
	B] Give the various types of marks present on fired cartridge case in detail.	[06]	

