

- N.B. :** (1) **All** questions are **compulsory**.  
(2) **Figures** to the **right** indicate **full marks**.

1. Answer **any two** of the following : **12**  
(a) Explain types of rifling and trigger and firing mechanism of rifling.  
(b) Explain improvised or country made fire arms.  
(c) Explain different types of chocking.  
(d) Define Arms and explain the nature and scope of Arms act.
2. Answer **any two** of the following : **12**  
(a) Define propellant. Explain compositions of propellant.  
(b) Explain safety aspects and handling fire arms and ammunitions.  
(c) Explain constructional features and characteristics of different types of cartridges.  
(d) Describe the provisions relating to licenses.
3. Answer **any two** of the following : **12**  
(a) Explain collection and evaluation of tire and tire marks.  
(b) Explain evidentiary clues of vehicles, the scene and the culprit / victim.  
(c) Explain different aspects of road accidents.  
(d) Describe the provisions relating to offences and penalties under motor vehicle Act.
4. Answer **any two** of the following : **12**  
(a) Explain restoration of erased serial numbers and engraved marks.  
(b) What are different types of glass and their compositions?  
(c) Explain interpretation of glass evidence by Atomic Emission Spectroscopy.  
(d) Describe the nature and scope of motor vehicle Act.
5. Write short notes on the followings (**Any three**) : **12**  
(a) History of primer.  
(b) Improvised ammunition used in improvised gun.  
(c) Crime Scene Management.  
(d) Types of ammunitions.  
(e) Fire Arms.
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