SUB.CODE: 18UFS4C7

REG.NO: | | | | | | | | | | |

DHANALAKSHMI SRINIVASAN COLLEGE OF ARTS & SCIENCE FOR WOMEN (AUTONOMOUS)

(For Candidates admitted from 2019 - 2020 onwards)

UG DEGREE EXAMINATIONS APRIL - 2021

B.Sc., - FORENSIC SCIENCE

FORENSIC PHYSICS AND BALLISTICS

Time: 3 Hrs **Max.Marks: 75**

PART - A

CHOOSE THE CORRECT ANSWER **(10X1=10)**

1. According to the history_____ made the first firearms.
   a) India b) China c) German d) Russia
2. The first recorded use of firearm was in the year _____
   a) 1288 b) 1364 c) 1380 d) 1392
3. Internal ballistics is the study of _____
   a)Barrel b) Projectile c) Muzzle d) Rifling twists
4. External Ballistics deals with the ___ of the bullet from the muzzle of the weapon to the target.
   a) Flight b) Barrel c) Muzzle d) Rifling twists
5. Terminal ballistics is also known as ___ ballistics
   a) Wound b) Projectile c) Cartidge d) Flight
6. ___ occurs when a bullet is deflected by an object rather than penetrating the target.
   a) Ricochet b) Wound c) Velocity d) Flight
7. Improvised firearm also means ____
   a) Homemade b) Company made c) Pistol d) Rifle
8. ___ microscope is used for the examination of fired bullets.
   a) Comparison b) Stereo c) Simple d) Compound
9. Flotation is a method used by scientists to determine ____
   a) Density of glass b) Mass of glass c) Refractive index of glass d) Temperature of glass
10. ___ is the formula used to determine the density of glass.
    a) D = M/V b) D = V/M c) D = VM d) D = V+M)

PART - B

ANSWER ALL THE QUESTIONS **(5X7=35)**

11. a) Write a note on the functions of the firearms section.

(OR)

b) Explain a firearm of your choice with neat diagram.

12. a) Explain the working of internal ballistics in a firearm

(OR)

b) Explain external ballistics of a firearm

13. a) Explain Ricochet and its effect

(OR)

b) Explain wound Ballistics

14. a) What is GSR and explain the methods of analysis

(OR)

b) How do you estimate the angle of firing? Explain

15. a) Explain the preliminary examination for paints.

(OR)

b) Explain the classification of fibres.

PART - C

ANSWER ANY THREE QUESTIONS **(3X10=30)**

16. Describe the classification of firearms.
17. Discuss internal ballistics of a firearm with neat diagram wherever required.
18. Describe external ballistics of a firearm.
19. How do you estimate the range & time of firing? Elaborate.
20. How fibres are classified? Discuss the laboratory tests for fibre samples.