

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER M.Sc. FORENSIC SCIENCE DEGREE EXAMINATION – FEBRUARY 2023

SUBJECT: MFS 711 – FORENSIC BALLISTICS (SPECIALIZATION)

Thursday, February 09, 2023

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ Answer the following:

✍ Long Answer Questions:

1. Discuss the differences between entry and exit wounds of firearm

(10 marks)

2. What is propellant charge? Discuss in detail the various types of propellant charges? How much amount of gas is liberated by burning of each of them?

(1+8+1 = 10 marks)

3. Write short notes on:

3A. Tandem and Dum Dum bullets

3B. Intermediate ballistics

3C. Medicolegal importance of Wound ballistics

3D. Smudging and Peppering

3E. Kronlein Shot

3F. Pellets

(5 marks × 6 = 30 marks)



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THIRD SEMESTER M.Sc. FORENSIC SCIENCE DEGREE EXAMINATION – FEBRUARY 2023

SUBJECT: MFS 707 – CRIMES OF NEW AGE AND SECURITY SYSTEMS

Wednesday, February 08, 2023

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ Answer ALL the questions.

1. Security systems deployed in Banking and Non-Banking financial Institutions.

(10 marks)

2. Central Vigilance commission and its functions.

(10 marks)

3. Write Short Notes on:

3A. Security systems at Bus terminals.

3B. Security systems at Railway stations.

3C. Security measures to be taken for suspected explosives found in public place.

3D. Security measures taken during Terrorist hostage activities

3E. Share related crimes.

3F. Money laundering

(5 marks × 6 = 30 marks)



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THIRD SEMESTER M.Sc. FORENSIC SCIENCE DEGREE EXAMINATION – FEBRUARY 2023

SUBJECT: MFS 705 – LEGAL SCIENCE AND CRIMINAL LAW

Tuesday, February 07, 2023

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ Answer ALL the questions.

✍ Long questions:

1. Explain the salient features of Wild life protection Act, 1972 and Environmental Protection act, 1986.

(10 marks)

2. Discuss in detail about the general exceptions on private defense under Indian Penal Code.

(10 marks)

3. Write Short Notes on:

3A. What is domestic violence? Explain how domestic violence act, 2005 protects individuals from domestic violence.

3B. Amendments of Motor Vehicle Act

3C. Salient features of Prevention of Atrocities against SC/ST Act.

3D. Significance of Expert evidence in courts.

3E. Rights of arrested person

3F. Burden of proof

(5 marks × 6 = 30 marks)



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THIRD SEMESTER M.Sc. FORENSIC SCIENCE DEGREE EXAMINATION – FEBRUARY 2023

SUBJECT: MFS 701 – FORENSIC MEDICINE TOXICOLOGY AND PHARMACOLOGY

Monday, February 06, 2023

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

 **Answer ALL the questions.**

 **Long Answer Questions:**

1. Classify Asphyxial deaths according to level of obstruction. Difference between suicidal and homicidal constriction of neck by a ligature.

(5+5 = 10 marks)

2. Classify poisons. Describe the clinical features, treatment, postmortem appearance and medicolegal aspects of organophosphorous poisoning

(2+2+2+2+2 = 10 marks)

3. **Write short notes on:**

- 3A. Describe appearance, active principles, medicolegal aspects of castor seeds.

(2+1+2 = 5 marks)

- 3B. Suis and its medicolegal aspects.

(3+2 = 5 marks)

- 3C. Evidentiary materials to be collected in a suspected manual strangulation case.

(5 marks)

- 3D. Privileged communication

(5 marks)

- 3E. Methyl alcohol poisoning

(5 marks)

- 3F. Barbiturates

(5 marks)

