

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER M.Sc. FORENSIC SCIENCE DEGREE EXAMINATION – FEBRUARY 2022

SUBJECT: MFS 607 – FORENSIC PHOTOGRAPHY

Thursday, February 24, 2022

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ Answer ALL the questions.

✍ Draw diagrams wherever necessary.

✍ Long Answer Questions:

1A. Define Forensic photography

1B. Comment on different types of photography

1C. Discuss the techniques of capturing crime scene photography

(1+3+6 = 10 marks)

2. Explain the concept of metering with reference to exposure compensation. Comment on the types of metering options used in crime scene photography.

(10 marks)

3. Write short notes on:

3A. IR photography in forensic work

3B. Micro and Macro photography

3C. Focusing points in professional cameras

3D. Conventional photography

3E. Analog and IP cameras

3F. Structure of professional camera

(5 marks × 6 = 30 marks)



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FIRST SEMESTER M.Sc. FORENSIC SCIENCE DEGREE EXAMINATION – FEBRUARY 2022

SUBJECT: MFS 601 – BASICS OF FORENSIC SCIENCE

Monday, February 21, 2022

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ Answer ALL the questions.

✍ Long Answer Questions:

1. Write a note on identification of a person from the skeletal remains.

(10 marks)

2. Write a note on forensic analysis of voice sample.

(10 marks)

3. Write short notes on:

3A. PCR and RFLP

3B. Morphology of Hair

3C. Identification of person from footprints

3D. Importance of skid marks in hit and run cases

3E. Analysis of fibre evidence

3F. Glass fractures

(5 marks × 6 = 30 marks)



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FIRST SEMESTER M.Sc. FORENSIC SCIENCE DEGREE EXAMINATION – FEBRUARY 2022

SUBJECT: MFS 603 – APPLIED FORENSIC SCIENCE AND CRIMINAL INVESTIGATION

Tuesday, February 22, 2022

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ Answer ALL the questions.

✍ Long Answer Questions:

1. Write a note on laboratory examination of semen and saliva.

(10 marks)

2. Explain the process of bail in India with suitable illustrations.

(10 marks)

3. Write short notes on:

3A. Protocols for collecting handwriting standards.

3B. Whorl type of fingerprints

3C. Role of media in criminal justice system

3D. Need for standardization of laboratories

3E. Examination of erasures in documents

3F. Method of collecting specimen fingerprints from living and dead person

(5 marks × 6 = 30 marks)



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FIRST SEMESTER M.Sc. FORENSIC SCIENCE DEGREE EXAMINATION – FEBRUARY 2022

SUBJECT: MFS 605 – BIOCHEMISTRY

Wednesday, February 23, 2022

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ **Answer the following in detail.**

1. Explain the factors affecting calcium homeostasis. List the metabolic functions of calcium.

(6+4 = 10 marks)

2A. Describe the process of translation. Add a note on any TWO post-translational modification.

(5+2 = 7 marks)

2B. Write any TWO inhibitors and their mechanism of action

(3 marks)

3. **Answer all the followings:**

3A. Explain blood glucose regulation

(5 marks)

3B. Functions and types of lipoproteins

(5 marks)

3C. Give an account of kwashiorkor and marasmus

(2½+2½ = 5 marks)

3D. Write the structure and functions of mRNA, tRNA and rRNA

(5 marks)

3E. Write a note on the general structure of immunoglobulins

(5 marks)

3F. Define Km. Write its importance

(5 marks)

