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MANIPAL ACADEMY OF HIGHER EDUCATION**FIRST SEMESTER M.Sc. FORENSIC SCIENCE DEGREE EXAMINATION – JANUARY 2024****SUBJECT: MFS 603 – APPLIED FORENSIC SCIENCE AND CRIMINAL INVESTIGATION**

Tuesday, January 16, 2024

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ Answer ALL the questions.

✍ Long Answer Questions:

1. Explain the methods of developing latent fingerprints in scene of crime. (10 marks)

2. Write a detailed note on establishing the authorship of writing. (10 marks)

3. Write short notes on:

3A. Determining the age of a writing

3B. Critical note on standardization of laboratory

3C. Collection and decipherment of charred documents

3D. Laboratory Examination of saliva sample

3E. Principles of handwriting analysis

3F. Sections against expert for unethical conduct.

(5 marks × 6 = 30 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
FIRST SEMESTER M.Sc. FORENSIC SCIENCE DEGREE EXAMINATION – JANUARY 2024
SUBJECT: MFS 607 – FORENSIC PHOTOGRAPHY

Thursday, January 18, 2024

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ Answer the following.

✍ Draw diagrams wherever necessary

✍ Long Answer Questions:

1. Elucidate the concepts of exposure triangle in photography.

(10 marks)

2. Discuss the legal functions of CCTV and surveillance photography.

(10 marks)

3. Write short notes on:

3A. Automatic and manual mode in professional cameras.

3B. Black and white photography.

3C. Types of lens used in cameras.

3D. Microscopic photography.

3E. Panavision.

3F. UV photography in forensic scenario.

(5 marks × 6 = 30 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER M.Sc. FORENSIC SCIENCE DEGREE EXAMINATION – JANUARY 2024

SUBJECT: MFS 605 – BIOCHEMISTRY

Wednesday, January 17, 2024

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ Answer the following in detail:

1. Explain Lac operon model. Discuss its regulation in presence of glucose and lactose
(5+5 = 10 marks)
2. Explain the various factors affecting the velocity of enzyme catalysed reactions with suitable illustrations
(10 marks)
3. Answer all the following:
 - 3A. Write one coenzyme functions of Thiamine, Biotin, Folic acid, Cobalamin and pyridoxine
(5 marks)
 - 3B. Explain post-translational modification with 4 examples
(5 marks)
 - 3C. Classify amino acids with examples
(5 marks)
 - 3D. Write the functions of calcium, phosphate and iron in our body
(1½+1½+2 = 5 marks)
 - 3E. Describe the functions and deficiency manifestations of vitamin D
(5 marks)
 - 3F. Write the mechanism of action of steroid hormones
(5 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION**FIRST SEMESTER M.Sc. FORENSIC SCIENCE DEGREE EXAMINATION – JANUARY 2024****SUBJECT: MFS 601 – BASICS OF FORENSIC SCIENCE**

Monday, January 15, 2024

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ **Answer ALL the questions.**

✍ **Long Answer Questions:**

1. Write a detailed note on forensic voice analysis.

(10 marks)

2. Explain soil horizon. Add a note on analysis of soil sample

(10 marks)

3. **Write short notes on:**

3A. What is paint? Explain the composition of paint.

3B. Principles of forensic science.

3C. Glass fractures

3D. Crime scene management

3E. Need of forensic science in modern era.

3F. Forensic analysis of hair sample.

(5 marks × 6 = 30 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
FIRST SEMESTER M.Sc. FORENSIC SCIENCE DEGREE EXAMINATION – JANUARY 2024
SUBJECT: MFS 609 – POLICE ADMINISTRATION AND VICTIMOLOGY

Friday, January 19, 2024

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ Answer the following questions.

✍ Long Answer Questions:

1. Explain the functions of “Central Armed Police Forces”

(10 marks)

2. Elucidate in detail about different crime prevention approaches.

(10 marks)

3. Write short notes on:

3A. Victim precipitation

3B. Von Hentig’s typology of victims.

3C. Rationale for gender sensitization training for police.

3D. CBI and IB

3E. Powers and functions of Director General of Police.

3F. Police regulations in Karnataka Police Act

(5 marks × 6 = 30 marks)

