

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (FORENSIC MEDICINE) DEGREE EXAMINATION – APRIL 2022**  
**PAPER I**

Friday, April 01, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Describe the blood supply of Heart. Discuss the morbid anatomical features in a case of Ischaemic heart disease.

(15 marks)

2. Discuss the establishment of a clinical forensic medicine unit in your hospital.

(15 marks)

3. **Write short notes on:**

3A. Barotrauma

3B. Mandibular canine index

3C. Paradoxical undressing

3D. Intersex

3E. Vagal Inhibition

3F. Vital reaction

3G. Gastric Emptying

3H. Body packer syndrome

3I. Ewing's postulate

3J. Atrocities against children

(7 marks × 10 = 70 marks)



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**PAPER II**

Saturday, April 02, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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✍ **Answer ALL the questions.**

1. Discuss Medical Termination of Pregnancy Act. (15 marks)
  
2. Discuss your role as a ‘custodian of human rights’ with the emphasis on suspected torture. (15 marks)
  
3. **Write short notes on:**
  - 3A. Defensive medical practice
  - 3B. Superfetation
  - 3C. Marital Rape
  - 3D. Signs of live birth
  - 3E. Bolam Test
  - 3F. Nuclear Sexing
  - 3G. Oath
  - 3H. Blood transfusion in a minor Jehovah’s witness patient
  - 3I. Adultery
  - 3J. Workmen’s Compensation Act

(7 marks × 10 = 70 marks)



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**PAPER III**

Monday, April 04, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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✍ **Answer ALL the questions.**

1. Discuss the patho-physiology of formation of 'Emboli'. How will you demonstrate air embolism and Fat embolism during autopsy?

(15 marks)

2. What do you understand by 'Hooch Tragedy'? Describe the signs and symptoms, fatal dose and period, post-mortem finding and method of sending Viscera and treatment of poisoning by 'Wood Alcohol'.

(15 marks)

3. **Write short notes on:**

3A. Migratory bruise

3B. Fish poisoning

3C. Differential Diagnosis of dilated and constricted pupil

3D. Surrogate motherhood and its medico-legal aspects

3E. Post-mortem artefacts

3F. Implications of Scarcity of Anti Snake Venom

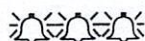
3G. Medico-Legal aspects of Human organ transplantation

3H. Neonatal cold injury

3I. Clinical Forensic Medicine Units

3J. Histo-pathological findings & ML aspects of Hypertrophic obstructive cardio myopathy

(7 marks × 10 = 70 marks)



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**PAPER IV**

Tuesday, April 05, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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✍ **Answer ALL the questions.**

1. Critically analyse Mental Health Act. (15 marks)

2. Discuss biomedical waste management. (15 marks)

3. **Write short notes on:**

3A. Ragging and Human Rights

3B. Neutron Activation Analysis

3C. Dr. Jacob Mathew's case

3D. Comparison Microscope

3E. Biological materials for DNA Fingerprinting

3F. Cloning

3G. Forensic aspects of DNA based human identity testing

3H. Brain fingerprinting

3I. Assessment of torture injuries

3J. Methods of discharge from psychiatric hospital

(7 marks × 10 = 70 marks)

