

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
(Deemed University)

**MSc (FINAL) ANATOMY DEGREE EXAMINATION – DECEMBER 2002**

**PAPER I: GROSS ANATOMY, APPLIED ANATOMY AND MORPHOLOGY**  
Monday, December 02, 2002

**Time available: 3 Hours**

**Maximum Marks: 100**

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- **Answer all the questions.**
  - **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**
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1. Describe the anatomy of Duodenum. Add a note on its blood supply.  
(25 Marks)
  
2. Describe the applied importance of venous drainage of upper limb.  
(25 Marks)
  
3. Give the anatomy of Hip joint. Discuss its applied Anatomy.  
(25 Marks)
  
4. Write short notes on:  
(5 x 5 = 25 Marks)
  - 4A. Carpal tunnel syndrome
  - 4B. Tympanic membrane
  - 4C. Femoral canal
  - 4D. Lumbosacral trunk
  - 4E. Cardiac plexus.

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**PAPER II: EMBRYOLOGY, HISTOLOGY AND GENETICS**  
Tuesday, December 03, 2002

**Time available: 3 Hours**

**Maximum Marks: 100**

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- **Answer all the questions.**
  - **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**
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1. Describe the development of male gonads. Discuss the congenital anomalies. (25 Marks)
2. Discuss the development and the fate of mesonephric ducts in both sexes. (25 Marks)
3. Describe the histology of pituitary. Discuss the methods of staining the pituitary. (25 Marks)
4. Write short notes on: (5 x 5 =25 Marks)
  - 4A. Histology of Parathyroid
  - 4B. Chorionic villi
  - 4C. Klinefelter's syndrome
  - 4D. Development and histology of Palatine Tonsil
  - 4E. Histology of Ovary.

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**PAPER III: NEUROANATOMY AND RECENT ADVANCES**  
Wednesday, December 04, 2002

**Time available: 3 Hours**

**Maximum Marks: 100**

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- **Answer all the questions.**
  - **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**
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1. Describe the internal capsule.  
(25 Marks)
  
2. Describe the reticular formation.  
(25 Marks)
  
3. Describe Pons.  
(25 Marks)
  
4. Write shorts notes on:  
(5 x 5 = 25 Marks)
  - 4A. Red nucleus
  - 4B. Neurobiotaxis
  - 4C. Superior cerebellar peduncle
  - 4D. Lateral geniculate body
  - 4E. Medial longitudinal fasciculus.