

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

**M.Sc. (FINAL) ANATOMY DEGREE EXAMINATION – JULY 2003**

**PAPER I: GROSS ANATOMY, APPLIED ANATOMY AND MORPHOLOGY**  
Tuesday, July 01, 2003

**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 the right atrium. Add a note on its development.  
(25 Marks)
  
2. Describe the functional components course and distribution of facial nerve.  
(25 marks)
  
3. Describe the position, parts, relations and supports of uterus. Add a note on its development.  
(25 Marks)
  
4. Write short notes on:  
(5 x 5 = 25 Marks)
  - 4A. Adductor canal
  - 4B. Indirect hernia
  - 4C. Pharyngeal Plexus
  - 4D. Thoracic duct
  - 4E. Ear ossicles

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## M.Sc. (FINAL) ANATOMY DEGREE EXAMINATION – JULY 2003

### PAPER II: EMBRYOLOGY, HISTOLOGY AND GENETICS

Wednesday, July 02, 2003

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 Microscopic anatomy of Trachea and Lungs. Add a note on development and anomalies of the respiratory system.

(25 Marks)
2. Discuss the derivatives of the pharyngeal arches and explain the formation of tracheal cysts and fistulae.

(25 Marks)
3. Discuss the microscopic anatomy of Uterus during different phases of menstrual cycle and correlate with microscopic anatomy of the Ovary.

(25 Marks)
4. Write short notes on:

(5 x 5 =25 Marks)

  - 4A. Development and Histology of Suprarenal cortex
  - 4B. Wharton's jelly
  - 4C. Introns and exons
  - 4D. Development of Brachiocephalic trunk
  - 4E. Axis artery



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**PAPER III: NEUROANATOMY AND RECENT ADVANCES**

Thursday, July 03, 2003

**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 white fibres of cerebrum. Discuss projection fibres. (25 Marks)
2. Describe the fourth ventricle. (25 Marks)
3. Describe nucleus course and distribution of hypoglossal nerve. (25 Marks)
4. Write shorts notes on: (5 x 5 = 25 Marks)
  - 4A. Motor speech area
  - 4B. Spinal meninges
  - 4C. Neuroglia
  - 4D. Anterior cerebral artery
  - 4E. Dentate nucleus