

MANIPAL ACADEMY OF HIGHER EDUCATION
(Deemed University)

MSc (FINAL) ANATOMY DEGREE EXAMINATION

PAPER I : GROSS ANATOMY, APPLIED ANATOMY AND MORPHOLOGY

Monday, 09 July 2001

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. Give a detailed account of the pericardium. Discuss applied anatomy
(25 Marks)

2. Give the attachments, nerve supply and actions of muscles attached to scapula.
(25 Marks)

3. Describe the portal vein. Give its applied aspects.
(25 Marks)

4. Write short notes on:
(5 x 5 = 25 Marks)
 - 4A. Mastoid antrum
 - 4B. Eyelid
 - 4C. Applied anatomy of thyroid gland
 - 4D. Emissary veins
 - 4E. Applied importance of lymphatic drainage of tongue

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MSc (FINAL) ANATOMY DEGREE EXAMINATION

PAPER II : EMBRYOLOGY, HISTOLOGY AND GENETICS

Tuesday, 10 July 2001

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 and anomalies of arch of aorta. Discuss its microscopic structure.
(25 Marks)

2. Describe the microscopic structure of mammary gland. Discuss age changes.
(25 Marks)

3. Describe the development of uterus and vagina. Discuss anomalies.
(25 Marks)

4. Write short notes on:
(5 x 5 =25 Marks)
 - 4A. Crossing over
 - 4B. Determination and differentiation
 - 4C. Periosteum
 - 4D. Mitochondria
 - 4E. Mendel's laws

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MSc (FINAL) ANATOMY DEGREE EXAMINATION

PAPER III : NEUROANATOMY AND RECENT ADVANCES
Wednesday 11 July 2001

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 basal ganglia. Discuss connections and functions.
(25 Marks)

2. Describe the lateral ventricle. Add a note on radiological study of this ventricle.
(25 Marks)

3. Give the root value of ulnar nerve. Discuss its course, distribution and effect of its lesions at different levels.
(25 Marks)

4. Write shorts notes on:
(5 x 5 = 25 Marks)
 - 4A. Visual cortex
 - 4B. Interpeduncular fossa
 - 4C. Linea splendens
 - 4D. Computers and anatomy
 - 4E. Medial longitudinal bundle

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MSc (FINAL) ANATOMY DEGREE EXAMINATION – DECEMBER 2001

PAPER I : GROSS ANATOMY, APPLIED ANATOMY AND MORPHOLOGY

Monday, December 03, 2001

Time available: 3 Hours

Maximum Marks: 100

- **Answer all the questions.**
 - **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**
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1. Describe the 1st intercostal nerve in detail adding a note on its functional components and applied importance.

(25 Marks)

2. Describe the cartilage and muscles of the larynx.

(25 Marks)

3. Describe the boundaries and contents of ischiorectal fossa.

(25 Marks)

4. Write short notes on:

(5 x 5 = 25 Marks)

 - 4A. Perineal membrane.
 - 4B. Upper lobe of right lung.
 - 4C. Internal thoracic artery.
 - 4D. Supra-sternal space.
 - 4E. Rima Glottidis.

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MSc (FINAL) ANATOMY DEGREE EXAMINATION

PAPER II : EMBRYOLOGY, HISTOLOGY AND GENETICS

Tuesday, 04 December, 2001

Time available: 3 Hours

Maximum Marks: 100

- **Answer all the questions.**
 - **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**
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1. Describe the histology of the Gastro-Intestinal System. (25 Marks)

2. Describe the development of the Brain. (25 Marks)

3. Discuss the formation of Placenta. (25 Marks)

4. Write short notes on: (5 x 5 =25 Marks)
 - 4A. Histology of Lymph Node.
 - 4B. Development of Pancreas.
 - 4C. In-Vitro-Fertilization.
 - 4D. Chromosomal aberrations
 - 4E. Onco-genes.

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MSc (FINAL) ANATOMY DEGREE EXAMINATION

PAPER III : NEUROANATOMY AND RECENT ADVANCES

Wednesday, December 05, 2001

Time available: 3 Hours

Maximum Marks: 100

- **Answer all the questions.**
 - **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**
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1. Describe the Medulla Oblongata with the diagrams of its cut sections.
(25 Marks)

2. Describe the Limbic system and its functions.
(25 Marks)

3. Describe the nuclei, course and distribution of vestibulocochlear nerve.
(25 Marks)

4. Write shorts notes on:
(5 x 5 = 25 Marks)
 - 4A. Schwann Cells.
 - 4B. Pineal Body
 - 4C. Blood supply of spinal cord.
 - 4D. Inferior cerebellar peduncle.
 - 4E. Caudate nucleus.