

# MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

## M. Sc. (FINAL) ANATOMY DEGREE EXAMINATION – JULY 2006

### PAPER I: GROSS ANATOMY, APPLIED ANATOMY AND MORPHOLOGY

Monday, July 03, 2006

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.**

1. Classify subphrenic spaces and explain the boundaries of it. Add a note on its applied aspects.

(25 marks)

2. Describe the Dural venous sinuses. Discuss its applied aspects.

(25 marks)

3. Describe the inguinal canal. Discuss its applied aspects.

(25 marks)

4. Write short notes on:

4A. Facial artery

4B. Ciliary ganglion

4C. Cardiac plexus

4D. Cisterna chyli

4E. I carpometacarpal joint

(5×5 = 25 marks)

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## M. Sc. (FINAL) ANATOMY DEGREE EXAMINATION – JULY 2006

### PAPER II: EMBRYOLOGY, HISTOLOGY AND GENETICS

Tuesday, July 04, 2006

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.

1. Describe the development of Heart. Discuss the congenital anomalies.

(25 marks)

2. Discuss the development of Face.

(25 marks)

3. Describe the structures of DNA.

(25 marks)

4. Write short notes on:

4A. Neural Crest.

4B. Implantation .

4C. Histology of Spleen.

4D. Histology of Adrenal Gland.

4E. Histology of Vagina.

(5×5 = 25 marks)

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## M. Sc. (FINAL) ANATOMY DEGREE EXAMINATION – JULY 2006

### PAPER III: NEUROANATOMY AND RECENT ADVANCES

Wednesday, July 05, 2006

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.

1. Describe the Cerebellar nuclei and its connections.

(25 marks)

2. Describe the Lateral ventricle in detail. Add a note on the applied aspects.

(25 marks)

3. Describe the nuclei and connections of Hypothalamus. Add a note on its functions.

(25 marks)

4. Write short notes on:

4A. Fornix.

4B. Corpus callosum.

4C. Spinal meninges.

4D. Medulla at the level of sensory decussation.

4E. Red nucleus.

(5×5 = 25 marks)

# MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

## M. Sc. (FINAL) ANATOMY DEGREE EXAMINATION – DECEMBER 2006

### PAPER I: GROSS ANATOMY, APPLIED ANATOMY AND MORPHOLOGY

Monday, December 04, 2006

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.**

1. Describe the first intercostal nerve and discuss its applied aspects.  
(25 marks)
  
2. Describe the Peritoneal reflection. Discuss about the lesser sac.  
(25 marks)
  
3. Describe the anal canal and its applied importance.  
(25 marks)
  
4. Write short notes on:
  - 4A. Lymphatic drainage of thoracic cage
  - 4B. Oblique inguinal hernia
  - 4C. Pyriform fossa
  - 4D. Vascular segments of kidney
  - 4E. Thoraco lumbar fascia.

(5×5 = 25 marks)

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## M. Sc. (FINAL) ANATOMY DEGREE EXAMINATION – DECEMBER 2006

### PAPER II: EMBRYOLOGY, HISTOLOGY AND GENETICS

Tuesday, December 05, 2006

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.**

1. Describe the development of Placenta. Discuss the types of Placentae.  
(25 marks)
  
2. Describe and compare the histology of Ovaries with Testis.  
(25 marks)
  
3. Describe in detail the Endodermal derivatives of Branchial Arches.  
(25 marks)
  
4. Write short notes on:
  - 4A. Fallot's Tetralogy
  - 4B. Bockdalek's triangle
  - 4C. Histology of bone
  - 4D. Klinefeller's syndrome
  - 4E. Gene therapy.

(5×5 = 25 marks)

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(Deemed University)

## M. Sc. (FINAL) ANATOMY DEGREE EXAMINATION – DECEMBER 2006

### PAPER III: NEUROANATOMY AND RECENT ADVANCES

Wednesday, December 06, 2006

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.**

1. Describe the Basal Ganglia and its connections.

(25 marks)

2. Describe the nucleus, course and distribution of the Glossopharyngeal nerve.

(25 marks)

3. Describe the Limbic Lobe and its functions.

(25 marks)

4. Write short notes on:

4A. Anterior commissure.

4B. Inferior olivary nuclear complex.

4C. Lateral spinothalamic tract.

4D. Neuroglia.

4E. Blood Brain Barrier.

(5×5 = 25 marks)