MANIPAL UNIVERSITY

M. Sc. (FINAL) ANATOMY DEGREE EXAMINATION – FEBRUARY 2008

PAPER I: GROSS ANATOMY, APPLIED ANATOMY AND MORPHOLOGY

Monday, February 04, 2008

Time available: 3 Hours | Maximum Marks: 100

- **Answer ALL the questions.**
- **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**

1. Describe the extrinsic muscles of eyeball. Add a note on its applied aspects.

(25 marks)

2. Describe the pelvic diaphragm. Discuss its role in support of pelvic viscera.

(25 marks)

3. Give an account of the capsules, relations, blood supply and development of Thyroid gland.

(25 marks)

4. Write short notes on:

4A. Semi lunar valves.

4B. Lumbricals.

4C. Cruciate ligaments of knee joint.

4D. Crico thyroid muscle.

4E. Indirect hernia.

(5×5 = 25 marks)

MANIPAL UNIVERSITY

M. Sc. (FINAL) ANATOMY DEGREE EXAMINATION – FEBRUARY 2008

PAPER II: EMBRYOLOGY, HISTOLOGY AND GENETICS

Tuesday, February 05, 2008

Time available: 3 Hours | Maximum Marks: 100

- **Answer ALL the questions.**
- **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**

1. Describe the rotation of the Gut. Discuss the congenital anomalies.

(25 marks)

2. Discuss teratogenesis.

(25 marks)

3. Give the histology of testes and describe spermatogenesis.

(25 marks)

4. Write short notes on:

4A. Mitochondria.

4B. Transfer RNA.

4C. Karyotyping.

4D. Development and histology of thymus.

4E. Morula.

(25 marks)

MANIPAL UNIVERSITY

M. Sc. (FINAL) ANATOMY DEGREE EXAMINATION – FEBRUARY 2008

PAPER III: NEUROANATOMY AND RECENT ADVANCES

Wednesday, February 06, 2008

Time available: 3 Hours | Maximum Marks: 100

- **Answer ALL the questions.**
- **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**

1. Describe the nuclei and connections of Thalamus.

(25 marks)

2. Describe the blood supply of the cerebrum.

(25 marks)

3. Describe the pyramidal tract. Discuss the lesions occurring at different levels.

(25 marks)

4. Write short notes on:

4A. Circle of Willis.

4B. Choroid fissure.

4C. Lateral Geniculate body.

4D. Cauda equina.

4E. Fornix.

(5×5 = 25 marks)

MANIPAL UNIVERSITY

M. Sc. (FINAL) ANATOMY DEGREE EXAMINATION – AUGUST 2008

PAPER I: GROSS ANATOMY, APPLIED ANATOMY AND MORPHOLOGY

Monday, August 04, 2008

Time available: 3 Hours | Maximum Marks: 100

- **Answer ALL the questions.**
- **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**

1. Describe the Peritoneal Reflections.

(25 marks)

2. Describe the Tempero-Mandibular Joint.

(25 marks)

3. Describe the Bronchopulmonary segments.

(25 marks)

4. Write short notes on:

4A. Arachnoid Granulations.

4B. Pterygoid Venous Plexus.

4C. Piriform Recess.

4D. Vermiform Appendix.

4E. Palmar Spaces.

(5×5 = 25 marks)

MANIPAL UNIVERSITY

M. Sc. (FINAL) ANATOMY DEGREE EXAMINATION – AUGUST 2008

PAPER II: EMBRYOLOGY, HISTOLOGY AND GENETICS

Tuesday, August 05, 2008

Time available: 3 Hours | Maximum Marks: 100

- **Answer ALL the questions.**
- **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**

1. Describe the formation and fate of Somites.

(25 marks)

2. Describe the derivatives of Cloaca.

(25 marks)

3. Describe the structures of the cell.

(25 marks)

4. Write short notes on:

4A. Trisomy 21.

4B. Meiosis.

4C. Sex-Chromosomal Anomalies.

4D. Development of Soft Palate.

4E. Histology of Oesophagus.

(5×5 = 25 marks)

MANIPAL UNIVERSITY

M. Sc. (FINAL) ANATOMY DEGREE EXAMINATION – AUGUST 2008

PAPER III: NEUROANATOMY AND RECENT ADVANCES

Wednesday, August 06, 2008

Time available: 3 Hours | Maximum Marks: 100

- **Answer ALL the questions.**
- **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**

1. Describe the Auditory Pathway.

(25 marks)

2. Describe the Extra-Pyramidal system.

(25 marks)

3. Describe the areas of the Cerebral Cortex.

(25 marks)

4. Write short notes on:

4A. Medial Geniculate Body.

4B. Arachnoid Granulations.

4C. Magnetic Resonance Imaging.

4D. Glossopharyngeal Nerve.

4E. Synapsis of Neuron.

(5×5 = 25 marks)