

MANIPAL UNIVERSITY

M. Sc. (FINAL) ANATOMY DEGREE EXAMINATION – AUGUST 2007

PAPER I: GROSS ANATOMY, APPLIED ANATOMY AND MORPHOLOGY

Wednesday, August 01, 2007

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 fibrous skeleton of the heart.

(25 marks)

2. Describe the pelvic fascia. Discuss its applied aspects.

(25 marks)

3. Describe the cavernous sinus. Discuss its applied anatomy.

(25 marks)

4. Write short notes on:

4A. Middle meatus of nose.

4B. Popliteus.

4C. Femoral hernia.

4D. Tympanic membrane.

4E. Uveal tract of eye.

(5×5 = 25 marks)

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PAPER II: EMBRYOLOGY, HISTOLOGY AND GENETICS

Thursday, August 02, 2007

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 microscopic structure of the respiratory tract. Correlate the structure with function.

(25 marks)

2. Describe the formation and fate of cloaca.

(25 marks)

3. Give chromosomal abnormalities and their effects on phenotype, giving examples.

(25 marks)

4. Write short notes on:

4A. Chorionic villi.

4B. Microscopic structure of large artery.

4C. Epiphysis.

4D. Karyotyping.

4E. Meckels cartilage.

(5×5 = 25 marks)

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PAPER III: NEUROANATOMY AND RECENT ADVANCES

Friday, August 03, 2007

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 parts, connections and functions of basal nuclei.

(25 marks)

2. Describe the nuclei, connections and functions of thalamus.

(25 marks)

3. Describe the facial nerve.

(25 marks)

4. Write short notes on:

4A. Olive.

4B. Insula.

4C. Speech areas of cerebrum.

4D. Myelination.

4E. Pia mater.

(5×5 = 25 marks)