

# MANIPAL UNIVERSITY

M.Sc. MEDICAL (FINAL) ANATOMY DEGREE EXAMINATION – FEBRUARY 2009

PAPER I: GROSS ANATOMY, APPLIED ANATOMY AND MORPHOLOGY

Monday, February 02, 2009

Time available: 14:00 – 17:00 Hrs.

Maximum Marks: 100

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✍ **Answer ALL the questions.**

✍ **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever necessary.**

1. Describe the first thoracic nerve in detail adding a note on their functional component and applied aspects.

(25 marks)

2. Describe the Uterus under-normal axis, parts, relations, supports. Add a brief note on broad ligament of the uterus.

(25 marks)

3. Describe the Carotid triangle in detail.

(25 marks)

4. **Write short notes on:**

4A. Abduction at the shoulder joint.

4B. Cruciate ligaments of the knee joint.

4C. Hepatorenal pouch and its clinical significance.

4D. Pterygopalatine fossa.

4E. Superior constrictor muscle of the pharynx.

(5×5 = 25 marks)



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## PAPER II: EMBRYOLOGY, HISTOLOGY AND GENETICS

Tuesday, February 03, 2009

Time available: 14:00 – 17:00 Hrs.

Maximum Marks: 100

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✍ **Answer ALL the questions.**

✍ **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever necessary.**

1. Describe the histology and development of thymus.

(25 marks)

2. Describe the development and fate of mesonephric ducts in both sexes.

(25 marks)

3. Describe the histology of liver and correlate with its functions.

(25 marks)

4. **Write short notes on:**

4A. Corpus luteum

4B. Microvilli

4C. Down's syndrome

4D. Microscopic structure of lacrimal gland

4E. Mordant

(5×5 = 25 marks)

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## PAPER III: NEUROANATOMY AND RECENT ADVANCES

Wednesday, February 04, 2009

Time available: 14:00 – 17:00 Hrs.

Maximum Marks: 100

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✍ **Answer ALL the questions.**

✍ **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever necessary.**

1. Classify the white matter of the cerebrum. Describe the internal capsule including its applied aspects.

(25 marks)

2. Describe the blood supply of the spinal cord including its applied aspects.

(25 marks)

3. Describe the oculomotor nerve. Discuss its applied aspects.

(25 marks)

4. **Write short notes on:**

4A. Red nucleus

4B. Insula

4C. Circumventricular organs

4D. Papez-circuit

4E. Broca's motor speech area

(5×5 = 25 marks)