

MANIPAL UNIVERSITY

M.Sc. MEDICAL (FINAL) ANATOMY DEGREE EXAMINATION – JULY 2015
PAPER I: GROSS ANATOMY, APPLIED ANATOMY AND MORPHOLOGY

Tuesday, July 14, 2015

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

- ✍ Answer ALL the questions.
- ✍ Illustrate your answers with neatly drawn and correctly labeled diagrams wherever necessary.

✍ Long Essay:

1. Describe middle ear and discuss its applied anatomy. (15 marks)
2. Describe the liver under: Visceral surface, ligaments, peritoneal recesses related and Couinauds segments. (15 marks)
3. Write short notes on:
 - 3A. Azygos lobe of the lung
 - 3B. Anastomoses
 - 3C. Arteries of the duodenum
 - 3D. Internal jugular vein
 - 3E. Common peroneal nerve
 - 3F. Bursae in relation to shoulder joint
 - 3G. Anterior interventricular artery
 - 3H. Nerve supply and lymphatic drainage of anal canal
 - 3I. Pterygopalatine ganglion
 - 3J. Gall bladder

(7 marks × 10 = 70 marks)



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PAPER II: EMBRYOLOGY, HISTOLOGY AND GENETICS

Wednesday, July 15, 2015

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

✍ Answer ALL the questions.

✍ Draw neat labeled diagrams wherever necessary.

✍ Long Essay:

1. Describe the events of septation in primitive atrium and ventricle and discuss the anomalies related to it.

(6+4+3+2 = 15 marks)

2. Compare and contrast the microscopic structure of the different parts of the small intestine.

(15 marks)

3. Write short notes on:

3A. First pharyngeal arch

3B. Fertilization

3C. Structural abnormalities of the chromosomes

3D. Development of uterus and vagina

3E. Development of diaphragm and its anomalies

3F. Microscopic structure of the pancreas

3G. Microscopic structure of pituitary gland

3H. Microscopic structure of the lymph node

3I. Steps involved in paraffin wax embedding

3J. Special stains for nervous tissue

(7 marks × 10 = 70 marks)



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PAPER III: NEUROANATOMY AND RECENT ADVANCES

Thursday, July 16, 2015

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

✍ Answer ALL the questions.

✍ Draw neat labeled diagrams wherever necessary.

✍ Long Essay:

1. Describe the reticular formation in detail.

(15 marks)

2. Describe the venous drainage of the cerebral hemispheres. Add a note on cerebral blood flow.

(15 marks)

3. Write short notes on:

3A. Internal capsule lesions

3B. Sympathetic trunk

3C. Lateral ventricle

3D. Nuclei of trigeminal nerve

3E. External features of cerebellum

3F. Caudate nucleus

3G. Auditory pathway

3H. Chromaffin cells

3I. Axons

3J. Speech areas of brain

(7 marks × 10 = 70 marks)

