

MANIPAL UNIVERSITY

MD (ANATOMY) DEGREE EXAMINATION – APRIL 2015

SUBJECT: PAPER I: GROSS ANATOMY INCLUDING GENERAL ANATOMY

Wednesday, April 01, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ Answer ALL the questions.

☞ Long Essays:

1. Describe the anatomy of femoral triangle.

(15 marks)

2. Describe the ligaments of liver.

(15 marks)

3. Write short notes on:

3A. Acromioclavicular joint

3B. Cephalic vein

3C. Supports of the uterus

3D. Intracapsular ligaments of knee joint

3E. Cardiac plexus

3F. Esophagus

3G. Rectus sheath

3H. Internal iliac artery

3I. Anastomosis

3J. Bone growth and assessment of bone age

(7 marks × 10 = 70 marks)



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SUBJECT: PAPER II: EMBRYOLOGY, GENETICS AND HISTOLOGY

Thursday, April 02, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Long Essays:

1. Describe the microscopic anatomy of testis, epididymis and vas deferens. (15 marks)

2. Discuss the formation and fate of intra embryonic mesoderm. (15 marks)

3. Write short notes on:

3A. Translocation

3B. Cells of connective tissue

3C. Twinning

3D. Fixation of tissues

3E. Development of diaphragm and its anomalies

3F. Describe the histology of lung

3G. Sinus venosus

3H. Cytoskeleton

3I. Karyotyping

3J. Microscopic anatomy of stomach

(7 marks × 10 = 70 marks)



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SUBJECT: PAPER III: NEUROANATOMY

Saturday, April 04, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ Answer ALL the questions.

☞ Long Essays:

1. Describe the thalamic nuclei with their connections. Add a note on thalamic syndrome. (15 marks)

2. Cross sectional anatomy at the open part of medulla oblongata. Add a note on lateral medullary syndrome. (15 marks)

3. Write short notes on:

3A. Choroid plexus

3B. Olfactory pathway

3C. Cerebellar afferents

3D. Effect of hemisection of spinal cord at mid-thoracic level

3E. Components and connections of limbic system

3F. Venous drainage of cerebrum

3G. Pterygopalatine ganglion

3H. Effect of facial nerve injury at different levels

3I. Cervical part of sympathetic chain

3J. Lentiform nucleus

(7 marks × 10 = 70 marks)



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MD (ANATOMY) DEGREE EXAMINATION – APRIL 2015

SUBJECT: PAPER IV: APPLIED ANATOMY INCLUDING RADIOLOGICAL
ANATOMY AND RECENT ADVANCES

Monday, April 06, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ Answer ALL the questions.

☞ Long Essays:

1. Describe the surgical anatomy of the cervical part of vertebral column and associated deformities.

(15 marks)

2. Describe the surgical anatomy of abdominal incisions.

(15 marks)

3. Write short notes on:

3A. PTCA [Percutaneous Transluminal Coronary Angioplasty]

3B. Cervical sympathetic chain and stellate block

3C. Duodenal recesses

3D. Blood supply of ureter and uretric mobilization

3E. Intercostal nerve block

3F. Rupture of urethra

3G. Fascia lata

3H. Anatomical snuff box

3I. Klumpke's paralysis

3J. Per-rectal examination

(7 marks × 10 = 70 marks)

