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MANIPAL UNIVERSITY

MD (ANATOMY) DEGREE EXAMINATION – APRIL 2016

SUBJECT: PAPER I: GROSS ANATOMY INCLUDING GENERAL ANATOMY

Monday, April 18, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Describe the anatomy of pancreas. Add a note on its development.

(15 marks)

2. **Describe the Larynx under the following headings:**

2A. Interior

2B. Movements of the vocal cord

2C. Mechanism of phonation

(15 marks)

3. **Write short answers on:**

3A. Pudental canal

3B. Tympanic membrane

3C. Lymphatic drainage of female reproductive tract

3D. Innervations of the urinary bladder

3E. Movements of the foot

3F. Rectus sheath

3G. Maxillary air sinus

3H. Left coronary artery

3I. Arterial supply of growing long bone

3J. Mesentery

(7 marks × 10 = 70 marks)



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MANIPAL UNIVERSITY

MD (ANATOMY) DEGREE EXAMINATION – APRIL 2016

SUBJECT: PAPER II: EMBRYOLOGY, GENETICS AND HISTOLOGY

Tuesday, April 19, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Describe the rotation of the gut and its anomalies.

(15 marks)

2. Describe the histology of liver. Give an account of three dimensional structure of liver.

(15 marks)

3. **Write short answer on:**

3A. Describe the microscopic anatomy of compact bone

3B. Truncus arteriosus: formation, fate and defects

3C. Stratified epithelium

3D. Abnormalities of chromosomes

3E. Ribosome

3F. Ovarian cycle

3G. Microscopic structure of cerebellum

3H. Chorionic villi

3I. Microscopic structure of arteries

3J. Development of upper lip

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**MD (ANATOMY) DEGREE EXAMINATION – APRIL 2016****SUBJECT: PAPER III: NEUROANATOMY**

Wednesday, April 20, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Describe the nuclei and connections of basal ganglia. (15 marks)
2. Describe the internal structure of spinal cord in detail. (15 marks)

3. **Write short answer on:**

- 3A. Speech areas of the brain
- 3B. Circulation of CSF
- 3C. Circulus arteriosus cerebri
- 3D. Myelination
- 3E. Cervical sympathetic chain
- 3F. Neuron
- 3G. Lamina terminalis
- 3H. Visual pathway
- 3I. White fibers of cerebellar cortex
- 3J. Red nucleus

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**MD (ANATOMY) DEGREE EXAMINATION – APRIL 2016****SUBJECT: PAPER IV: APPLIED ANATOMY INCLUDING RADIOLOGICAL
ANATOMY AND RECENT ADVANCES**

Thursday, April 21, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Describe the incisions carried out on the anterior abdominal wall along with its merits and demerits.

(15 marks)

2. Discuss the lymphatic drainage of head and neck in detail.

(15 marks)

3. **Write short answer on:**

3A. Internal mammary artery

3B. Foot drop

3C. Surgical anatomy of hemorrhoids

3D. Femoral hernia

3E. Pelvimetry

3F. Intervertebral joints

3G. Ventriculo- peritoneal shunt

3H. Intracytoplasmic sperm injection

3I. Surgical sympathectomy

3J. Pyelography

(7 marks × 10 = 70 marks)

