

MANIPAL UNIVERSITY**MD (ANATOMY) DEGREE EXAMINATION – APRIL 2017****SUBJECT: PAPER I: GROSS ANATOMY INCLUDING GENERAL ANATOMY**

Monday, April 03, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Describe the blood supply of the heart.

(15 marks)

2. Describe the extrinsic and intrinsic muscles of the eyeball.

(15 marks)

3. **Write short notes on:**

3A. Synovial joints

3B. Formation of the brachial plexus

3C. Adductor canal

3D. Maxillary artery

3E. Pleural recesses

3F. Nasopharynx

3G. Epiploic foramen

3H. Thoracic duct

3I. Spermatic cord

3J. Piriformis muscle

(7 marks × 10 = 70 marks)



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MANIPAL UNIVERSITY

MD (ANATOMY) DEGREE EXAMINATION – APRIL 2017

SUBJECT: PAPER II: EMBRYOLOGY, GENETICS AND HISTOLOGY

Tuesday, April 04, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Describe the modifications in respiratory tract epithelium in relation to function. (15 marks)
2. Describe the formation and fate of aortic arches. Add a note on its developmental anomalies. (15 marks)

3. **Write short notes on:**

- 3A. Development of retina
- 3B. Technique used for the study of chromosomes
- 3C. Capacitation
- 3D. Microanatomy of suprarenal gland
- 3E. Specialized adhesive contacts of cells
- 3F. Preservatives in histological work
- 3G. Development of male urethra
- 3H. Histological details of glands of the stomach
- 3I. Assisted reproductive techniques
- 3J. Structural abnormalities of chromosomes

(7 marks × 10 = 70 marks)



Reg. No.																			
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MD (ANATOMY) DEGREE EXAMINATION – APRIL 2017

SUBJECT: PAPER III: NEUROANATOMY

Wednesday, April 05, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Describe the anatomy and lesions of internal capsule in detail. (15 marks)

2. Describe the nuclei and connections of hypothalamus. (15 marks)

3. **Write short answer on:**

3A. Lateral sulcus of cerebrum

3B. Cross section of midbrain at the level of superior colliculi

3C. Spinal pia mater

3D. Medial lemniscus

3E. Blood brain barrier

3F. Neuroglia

3G. Choroid plexus

3H. Olfactory pathway

3I. Climbing and mossy fibers

3J. Fornix

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY

MD (ANATOMY) DEGREE EXAMINATION – APRIL 2017

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

Thursday, April 06, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Long Essays:

1. Describe the fascial spaces of neck and their applied anatomy.

(15 marks)

2. Describe the prostate gland under the following headings:

2A. Lobes and relations

2B. Age changes

2C. Surgical approaches

(15 marks)

3. Write short answers on:

3A. Radiological techniques to study the urinary tract

3B. Anorectal junction

3C. Anatomical basis of shunt operations in portal hypertension

3D. Hydrocephalus

3E. fibrous skeleton of the heart

3F. Cruciate ligaments of knee

3G. Subdiaphragmatic spaces

3H. Superficial perineal pouch

3I. Effect of lesion of visual pathway at different levels

3J. Horner's syndrome

(7 marks × 10 = 70 marks)

