Reg. No.										

MANIPAL UNIVERSITY

M.Sc. MEDICAL (FINAL) ANATOMY DEGREE EXAMINATION – FEBRUARY 2016

PAPER I: GROSS ANATOMY, APPLIED ANATOMY AND MORPHOLOGY

Monday, February 01, 2016

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 venous drainage of lower limb and discuss its applied aspects.

(15 marks)

2. Describe bronchopulmonary segments. Describe their applied anatomy in detail.

(15 marks)

3. **Write short notes on:**

3A. Head of pancreas
3B. Arch of aorta
3C. Lacrimal gland
3D. Piriformis muscle
3E. Thoracic part of oesophagus
3F. Arterial anastomosis around scapula
3G. Cervix of uterus – relations, nerve supply and lymphatic drainage
3H. Hepatorenal pouch and its applied anatomy
3I. Primary cartilaginous joints
3J. Extracranial part of hypoglossal nerve

(7 marks × 10 = 70 marks)

Reg. No.										

MANIPAL UNIVERSITY

M.Sc. MEDICAL (FINAL) ANATOMY DEGREE EXAMINATION – FEBRUARY 2016

PAPER II: EMBRYOLOGY, HISTOLOGY AND GENETICS

Tuesday, February 02, 2016

Time: 14:00 – 17:00 Hrs. Maximum Marks: 100

- **Answer ALL the questions.**
- **Draw neat labeled diagrams wherever necessary.**

Long Essay:

1. Describe the development and anomalies of urinary bladder and male urethra.

(7+8 = 15 marks)

2. Describe the microscopic structure of an artery. Mention the functions of the endothelial cells.

(10+5 = 15 marks)

3. **Write short notes on:**

3A. Gross and microscopic structure of the placenta
3B. Development of the upper lip and its anomalies
3C. Ductus venosus
3D. Development and descent of testis
3E. Microscopic structure of thymus
3F. Microscopic structure of suprarenal gland
3G. Microscopic structure of appendix
3H. What are compound fixatives? How are they classified? Give example for each variety
3I. Mitochondrial DNA
3J. Maternal hormonal effect on congenital anomalies

(7 marks × 10 = 70 marks)

Reg. No.										

MANIPAL UNIVERSITY

M.Sc. MEDICAL (FINAL) ANATOMY DEGREE EXAMINATION – FEBRUARY 2016

PAPER III: NEUROANATOMY AND RECENT ADVANCES

Wednesday, February 03, 2016

Time: 14:00 – 17:00 Hrs. Maximum Marks: 100

- **Answer ALL the questions.**
- **Draw neat labeled diagrams wherever necessary.**

Long Essay:

1. Describe the peripheral parasympathetic ganglia of head and neck.

(15 marks)

2. Describe the various functional areas of cerebrum. Give their arterial supply and effects of lesion.

(15 marks)

3. **Write short notes on:**

3A. Myelination
3B. Pyramidal tracts
3C. Interpeduncular fossa
3D. Mesencephalic nucleus of trigeminal nerve
3E. Neuroactive chemicals
3F. Cisterna magna
3G. Olivary nuclei
3H. Vessels of the pituitary gland
3I. Ventral posterior nucleus of thalamus
3J. Ventral pons

(7 marks × 10 = 70 marks)