

MANIPAL UNIVERSITY**M.Sc. MEDICAL (FINAL) ANATOMY DEGREE EXAMINATION – JULY 2014****PAPER I: GROSS ANATOMY, APPLIED ANATOMY AND MORPHOLOGY**

Thursday, July 10, 2014

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

✍ Answer ALL the questions**✍ Long Essay**

1. Describe the arches of foot.

(15 marks)

2. Describe the gross anatomy of the extra hepatic biliary apparatus.

(15 marks)

3. **Write short notes on:**

3A. Ossification

3B. 1st carpometacarpal joint.

3C. Interior of the right atrium.

3D. Anastomosis

3E. Pterygopalatine ganglion

3F. Killian's dehiscence

3G. Cavity of larynx

3H. Superficial perineal pouch

3I. Subtalar joint

3J. Posterior interosseous nerve

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**M.Sc. MEDICAL (FINAL) ANATOMY DEGREE EXAMINATION – JULY 2014****PAPER II: EMBRYOLOGY, HISTOLOGY AND GENETICS**

Friday, July 11, 2014

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 gastrulation and discuss the anomalies related to it
(10+5 = 15 marks)

2. Describe the development of kidney and write briefly on genetic basis of polycystic kidney.
Give an account of the ultra-structure of different parts of the nephron
(7+3+5 = 15 marks)

3. **Write short notes on**

3A. Development of palate and its anomalies

3B. Neural tube defects

3C. Chromosomal microarray test in prenatal diagnosis

3D. Rotation of the midgut loop and related anomalies

3E. Congenital cyanotic cardiac anomalies

3F. Mucosa of the small intestine

3G. Microscopic structure of thyroid and parathyroid glands

3H. Microscopic structure of the thymus

3I. Haematoxylin and Eosin stain

3J. Commonly used fixative agents in histology, their merits and demerits

(7 marks×10 = 70 marks)



MANIPAL UNIVERSITY**M.Sc. MEDICAL (FINAL) ANATOMY DEGREE EXAMINATION – JULY 2014****PAPER III: NEUROANATOMY AND RECENT ADVANCES**

Saturday, July 12, 2014

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

✍ **Answer ALL the questions**

✍ **Draw neat labeled diagrams wherever necessary**

✍ **Long Essay**

1. Discuss the connections of the cerebellum on the basis of its functions

(15 marks)

2. Describe the lateral ventricles of the brain. Discuss the circulation of C.S.F. Add a note on hydrocephalus

(15 marks)

3. **Write short notes on**

3A. Astrocytes

3B. Circle of Willis

3C. Cerebral asymmetry

3D. Typical Spinal nerve

3E. Piamater

3F. Stretch reflex

3G. Cross sectional study of Medulla at the level of sensory decussation

3H. Neurobiotaxis

3I. Supraoptic and paraventricular nuclei

3J. Striatum

(7 marks × 10 = 70 marks)

