

**MANIPAL UNIVERSITY**  
**FIRST MBBS DEGREE EXAMINATION – JUNE/JULY 2015**  
**SUBJECT: ANATOMY: PAPER – I (ESSAY)**

Friday, June 26, 2015

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

- ✍ **All questions are compulsory.**  
✍ **Illustrate your answers with diagrams and flow charts wherever appropriate.**

1. A 45-year-old male after a party fell asleep in his chair with his right upper limb outstretched over the arm rest. When he woke up in the morning, he was unable to extend the forearm, wrist, or fingers. Movements of the ipsilateral shoulder joint appeared to be normal.

1A. Write the root value of the involved structure

1B. Describe the course and distribution of the involved structure.

(1+4+5 = 10 marks)

2. Describe the boundaries, contents and applied aspects of tympanic cavity. Add a note on its development.

(5+2+1+2 = 10 marks)

3. **Write short notes on**

3A. Supinator muscle

3B. Somites

3C. Chorda tympani nerve

3D. Transverse section of bone

3E. X linked dominant disorders

3F. Hyoglossus muscle

3G. Cephalic vein

3H. Superior sagittal sinus

3I. Microscopic structure of thymus

3J. Connecting stalk

3K. Sulci and gyri of medial surface of the cerebral hemisphere

3L. Circle of Willis

3M. Draw a neat labelled diagram of cross section of medulla at the level of pyramidal decussation

3N. Medial lemniscus

3O. Cerebello-pontine angle

(4 marks × 15 = 60 marks)



## MANIPAL UNIVERSITY

## FIRST MBBS DEGREE EXAMINATION – JUNE/JULY 2015

## SUBJECT: ANATOMY: PAPER – II (ESSAY)

Saturday, June 27, 2015

Time: 10:20 – 13:00 Hours

Maximum Marks: 80

- ✍ All questions are compulsory. Write brief, clear, relevant and legible answers.  
 ✍ Illustrate your answers with diagrams and flow charts wherever appropriate.

1. A 50-year-old mother of 5 children consults a gynaecologist with complaints of pressure / heaviness in the pelvis or vagina, problems with sexual intercourse, leaking urine and sudden urge to empty the bladder. Based on the knowledge of the region, answer the following questions:

- 1A. Name the organ to have prolapsed in a woman who has given birth many times.  
 1B. Describe briefly the primary and secondary supports of the prolapsed organ.  
 1C. Mention the position and normal axis of the organ.  
 1D. Give the blood supply and development of this organ.

(1+4+2+3 = 10 marks)

2. Describe the femoral triangle under:

- 2A. Boundaries  
 2B. Contents  
 2C. Femoral sheath  
 2D. Applied anatomy

(3+3+2+2 = 10 marks)

3. Write short answers on:

- 3A. Anal canal: Interior and applied aspects  
 3B. Inguinal canal: Boundaries, contents and applied aspects  
 3C. Testis: Coverings and blood supply  
 3D. Superficial perineal space: Boundaries, contents and applied aspects  
 3E. Anterior interventricular artery: Origin, location and area of distribution  
 3F. Oesophagus: Extent, normal constrictions and clinical anatomy  
 3G. Costodiaphragmatic recess of pleura  
 3H. Define typical intercostal space. List its contents.  
 3I. Sciatic nerve: origin with root value, course and motor distribution.  
 3J. Medial longitudinal arch: Formation and factors responsible for maintenance  
 3K. Microscopic structure of spleen  
 3L. Microscopic structure of lung  
 3M. Development of urinary bladder and its anomalies  
 3N. Development of interventricular septum and its anomalies  
 3O. Fibrous joints

(4 marks × 15 = 60 marks)

