

MANIPAL UNIVERSITY**FIRST MBBS DEGREE EXAMINATION – JULY 2017****SUBJECT: ANATOMY: PAPER – I (ESSAY)**

Friday, July 14, 2017

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **All questions are compulsory. Write brief, clear, relevant and legible answer.**

✍ **Illustrate your answers with diagrams and flow charts wherever appropriate.**

1. Describe the soft palate under the following headings:

1A. External features

1B. Muscles – attachments, actions and nerve supply

(3+7 = 10 marks)

2. A 60-year-old woman presents to the physician with a 2cm mass in the left breast and low back ache. On examination there was peau d' orange appearance of the skin, loss of mobility and retraction of the nipple. MRI of the lower back showed lesions in the lower lumbar vertebrae. She undergoes wide excision surgery to remove the primary breast mass and lymph nodes.

2A. Describe in detail the lymphatic drainage of the breast.

2B. Give the anatomical basis for all the signs mentioned in the above case.

2C. Describe in detail the structure of the mammary gland.

(4+3+3 = 10 marks)

3. **Write short notes on:**

3A. Ulnar nerve in the hand

3B. Profunda brachii artery

3C. Implantation

3D. Microscopic structure of spleen

3E. Blood and nerve supply of the nasal septum

3F. Formation and derivatives of neural crest

3G. Microscopic structure of thin skin

3H. Amniocentesis

3I. Draw a neat labelled diagram of the cross section of brain stem at the level of facial colliculus

3J. Red nucleus

3K. Functional areas of the frontal lobe

3L. Inferior constrictor muscle

3M. Accommodation reflex

3N. Lateral geniculate body

3O. Dangerous area of the face

(4 marks × 15 = 60 marks)



MANIPAL UNIVERSITY

FIRST MBBS DEGREE EXAMINATION – JULY 2017

SUBJECT: ANATOMY: PAPER – II (ESSAY)

Saturday, July 15, 2017

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 68 year old woman with history of multiple pregnancy came to the gynecologist with chief complaint of back pain and some mass coming out of the introitus that increases in size during micturition and defecation. After examination and investigations the doctor diagnosed it as a case of uterine prolapse. Based on the anatomy of this region answer the following questions:

- 1A. Describe the parts and relations of uterus.
1B. Describe the supports of this organ.
1C. Give its development.

(4+5+1 = 10 marks)

2. Describe the arterial supply and venous drainage of heart. Add a note on coronary dominance.

(6+3+1 = 10 marks)

3. Write short notes on:

- 3A. The mesentery
3B. Abdominal aorta
3C. Rectus sheath
3D. Microscopic structure of ileum
3E. Development and congenital anomalies of the urinary bladder
3F. Popliteus muscle
3G. Development of diaphragm
3H. Portal vein
3I. Bronchopulmonary segments of right lung
3J. Cutaneous innervation of dorsum of the foot
3K. Typical intercostal space
3L. Microscopic structure of gall bladder
3M. Ligamentum patellae
3N. Foot drop
3O. Classification of bones

(4 marks × 15 = 60 marks)

