

MANIPAL ACADEMY OF HIGHER EDUCATION
FIRST MBBS DEGREE EXAMINATION – AUGUST/SEPTEMBER 2021
SUBJECT: ANATOMY: PAPER – I (ESSAY)

Monday, August 23, 2021

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 55-year-old woman was transported to the emergency department following a motor vehicle accident. While riding a motorcycle, she was struck from behind by a truck and lost consciousness for several minutes. On examination, she was alert, but had dizziness, headache and diplopia. She had abrasion wounds on her left frontal and periorbital regions and had ptosis as well as dilated non-reactive pupil. Her left eye could only move outward and depress. Otherwise, her neurological examination was without any focal abnormality.

- 1A. Name the structure involved that would have been responsible for the abnormalities of the eye.
- 1B. Explain why there was ptosis and non-reactive pupil
- 1C. Give the origin of the structure involved
- 1D. Describe its course and distribution

(1+2+1+6 = 10 marks)

2. Describe the musculocutaneous nerve under following headings

- 2A. Origin
- 2B. Course and distribution
- 2C. Applied aspects

(2+6+2 = 10 marks)

3. **Write short notes on:**

- 3A. Parotid duct
- 3B. Cervical part of the facial artery
- 3C. Superior sagittal sinus
- 3D. Spinothalamic tracts
- 3E. Third ventricle
- 3F. Middle cerebral artery
- 3G. Labelled diagram showing the section of medulla oblongata at motor decussation
- 3H. Cerebellar nuclei
- 3I. Biceps brachii
- 3J. Carpal tunnel syndrome
- 3K. Histology of lymph node
- 3L. Histological differences between large sized artery and large sized vein
- 3M. Notochord
- 3N. Placental barrier
- 3O. Chromosomes

(4 marks × 15 = 60 marks)



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FIRST MBBS DEGREE EXAMINATION – AUGUST/SEPTEMBER 2021
SUBJECT: ANATOMY: PAPER – II (ESSAY)

Tuesday, August 24, 2021

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. Describe the location, coverings, presenting parts and lobes, and age changes of prostate.
(1+2+4+3 = 10 marks)

2. An elderly school teacher with the history of chronic dull ache in his legs sought medical help when he noticed remarkably tortuous and dilated veins on the medial aspect of his legs. On examination, the skin around the medial malleolus was found to be dry, scaly and discoloured.

2A. Identify the clinical condition mentioning the vessel involved.

2B. Give the underlying reason for this condition.

2C. Describe the course and tributaries of the vessel involved.

2D. Give any two other applied aspects of this vessel.

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

3. **Write short notes on:**

3A. Major openings of thoracic diaphragm

3B. Relations of arch of aorta

3C. Microscopic structure of pyloric part of stomach

3D. Contents of broad ligament of uterus

3E. Septal wall of right atrium

3F. Development of urinary bladder

3G. Pudendal canal

3H. Sinuses of pericardium

3I. Adductor magnus muscle

3J. Epiploic foramen

3K. Labeled diagram of mediastinal surface of left lung

3L. Menisci of knee joint

3M. Metaphysis

3N. Development of thyroid

3O. Microscopic structure of cornea

(4 marks × 15 = 60 marks)

