

# Question Paper

Exam Date & Time: 07-Jun-2022 10:20 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST MBBS DEGREE EXAMINATION – JUNE 2022

SUBJECT: ANATOMY - PAPER I

(OLD REGULATION – 2018-19 & PRIOR BATCH – REPEATERS)

Marks: 80

Duration: 160 mins.

**All questions are compulsory.**

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

1. Describe the tongue under following headings:

- 1A) Features on the dorsum (3)
- 1B) Muscles (2)
- 1C) Arterial supply and nerve supply (3)
- 1D) Development (2)

2. A 7-year-old girl presented to the emergency department of a specialist pediatric hospital following an injury to her right elbow. On examination, the patient was noted to have significant swelling of the elbow. Radiograph showed displaced fracture of the medial epicondyle of humerus. Neurological examination revealed paraesthesia of medial part of palm and medial one and half fingers with flattening of hypothenar eminence:

- 2A) Name the structure that would have been damaged due to fracture of medial epicondyle of the humerus to lead to these clinical findings. (1)
- 2B) Describe the origin, course and distribution of the structure involved. (7)
- 2C) Give the applied anatomy of that structure in the hand. (2)

3. **Write short notes on:**

- 3A) Tentorium cerebelli. (4)
- 3B) Middle meatus of the nose. (4)
- 3C) Epiglottis (4)
- 3D) Neat labeled diagram of a section of pons at the level of facial colliculus. (4)
- 3E) Dentate nucleus of the cerebellum. (4)
- 3F) Speech areas of the cerebrum. (4)
- 3G) Boundaries and contents of the interpeduncular fossa. (4)

- 3H) Floor of the fourth ventricle. (4)
- 3I) Palmar aponeurosis. (4)
- 3J) Rotator cuff of the shoulder. (4)
- 3K) Microscopic structure of the palatine tonsil. (4)
- 3L) Microscopic structure of the hyaline cartilage. (4)
- 3M) Formation and fate of the notochord. (4)
- 3N) Formation and fate of somites. (4)
- 3O) Down's syndrome. (4)

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# Question Paper

Exam Date & Time: 08-Jun-2022 10:20 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST MBBS DEGREE EXAMINATION – JUNE 2022

SUBJECT: ANATOMY - PAPER II

(OLD REGULATION – 2018-19 & PRIOR BATCH – REPEATERS)

Marks: 80

Duration: 160 mins.

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

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

1. A 19 year old boy was brought to the emergency department with a deep knife wound in front of the left thigh, inferolateral to the midinguinal point. On examination, he could not extend his left knee joint and sensations were lost on anterior and medial sides of the left thigh and leg up to the ball of the great toe. Based on your knowledge of anatomy answer the following questions:

- Name the structure affected.
- Give the origin and course of the structure.
- Name all its branches & distribution.

(1+5+4 = 10 marks)

2. Describe the spleen under the following headings: position, relations and ligaments. Add a note on its applied aspects.

(1+5+3+1 = 10 marks)

3. **Short answers:**

- 3A) Labeled diagram showing mediastinal surface of the left lung. (4)
- 3B) Development of the pancreas. (4)
- 3C) Thoracic duct. (4)
- 3D) Relations & interior of the second part of duodenum. (4)
- 3E) Describe the microscopic structure of trachea with a neat labeled diagram. (4)
- 3F) Enumerate the contents of typical intercostal space. (4)
- 3G) Enumerate the features of typical synovial joint with a neat labeled diagram. (4)
- 3H) Blood supply of supra renal gland. (4)
- 3I) Describe the microscopic structure of ovary with a neat labeled diagram. (4)
- 3J) Location and tributaries of the coronary sinus. (4)
- 3K) Tibialis posterior muscle. (4)
- 3L) Major openings of the diaphragm & structures passing through them. (4)
- 3M) Development of interatrial septum & its defects. (4)
- 3N) Boundaries and applied anatomy of hepatorenal pouch. (4)
- 3O) Cruciate ligaments of the knee joint. (4)

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