

MANIPAL UNIVERSITY

FIRST MBBS DEGREE EXAMINATION – MAY/JUNE 2014

SUBJECT: ANATOMY: PAPER – I (ESSAY)

Tuesday, May 27, 2014

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

☞ **All questions are compulsory.**

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

1. Explain the Tongue under the following headings:

1A. External features

1B. Nerve supply with developmental correlations

1C. Microscopic anatomy

(4+ 3+3 = 10 marks)

2. While playing in the yard, a father picked up his 4-year-old daughter by her hand and started swinging her around in a circle. At first the girl giggled, but all of a sudden, she cried out in pain. Soon her father noticed that she was holding her elbow and there was mild swelling. She was taken to the hospital, where on examination she was unable to supinate her hand without considerable pain. Radiological examination did not reveal any fracture. Based on your knowledge of Anatomy answer the following questions:

2A. Name the clinical condition occurred here.

2B. What are the bony landmarks that are readily palpable at this site?

2C. Name and state the precise location of the posteriorly located nervous structure that is vulnerable to injury at this site?

2D. Give the origin and course of that structure.

2E. Name the structures supplied by it.

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

3. **Write short notes on the following questions:**

3A. Tentorium cerebelli

3B. Inferior alveolar nerve

3C. Tympanic membrane

3D. Draw a neat labeled diagram of transverse section of the medulla oblongata at the level of olive

3E. Floor of fourth ventricle

3F. Corpus callosum

3G. Corticospinal tract

3H. Arterial supply of cerebrum

3I. Superficial palmar arch

3J. Brachioradialis muscle

3K. Microscopic structure of lymph node

3L. Microscopic structure of medium sized artery

3M. Oogenesis

3N. Yolk sac

3O. Turner's syndrome

(4 marks × 15 = 60 marks)



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FIRST MBBS DEGREE EXAMINATION – MAY/JUNE 2014

SUBJECT: ANATOMY: PAPER – II (ESSAY)

Wednesday, May 28, 2014

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 17 year old male presented to the surgical O.P.D with the complaint of swelling in the left groin since 7 months which increased in size during straining or coughing. On examination the surgeon diagnosed it has hernia. The neck of the hernial sac was 1.25cm above the mid inguinal point.

Based on the anatomy of this region, answer the following questions.

- 1A. What type of hernia is this?
 1B. Describe the extent and openings of the passage through which the hernial contents pass.
 1C. Describe the boundaries of the passage.
 1D. Name the normal contents of the passage.

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

2. Describe the knee joint under the following headings.

- 2A. Type
 2B. Articulating surfaces
 2C. Capsule and ligaments
 2D. Applied anatomy

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

3. Write short notes on:

- 3A. Arterial supply of stomach
 3B. Boundaries and contents of superficial perineal pouch
 3C. Interior of right atrium
 3D. Boundaries and contents of superior mediastinum
 3E. Microscopic structure of suprarenal gland
 3F. Development of interventricular septum
 3G. Boundaries and clinical importance of rectouterine pouch
 3H. Relations of left kidney
 3I. Root of lung
 3J. Azygos vein
 3K. Cutaneous nerve supply of dorsum of foot
 3L. Tibialis anterior
 3M. Microscopic structure of prostate
 3N. Paramesonephric duct
 3O. Sesamoid bones

(4 marks × 15 = 60 marks)

