

MANIPAL ACADEMY OF HIGHER EDUCATION
FIRST MBBS DEGREE EXAMINATION – AUGUST 2018
SUBJECT: ANATOMY: PAPER – I (ESSAY)

Friday, August 10, 2018

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 73-year-old right-handed male presented for evaluation of left shoulder pain and abduction weakness. He reported that he received an intramuscular injection about 8 weeks earlier in a hospital. Few weeks after the injection he experienced that he was unable to abduct his left arm. On physical examination, there was notable loss of shoulder contour, sensory loss on the lower half of the deltoid muscle. He had active range of motion of the first 10 - 15 degrees of shoulder abduction, but could not abduct beyond that.

1A. Which structure is likely to be affected in this case?

1B. Give its origin.

1C. Describe its course and relations.

1D. Name all its branches.

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

2. Describe the position, relations, blood supply and development of the palatine tonsil. Add a note on its applied aspects.

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

3. **Write short answers:**

3A. Ciliary ganglion

3B. Ansa cervicalis

3C. Lingual nerve

3D. Floor of the 4th ventricle

3E. Anterior cerebral artery

3F. Neat labeled diagram of a section of midbrain at the level of inferior colliculus.

3G. Ligamentum denticulatum

3H. Sulci and gyri on the superolateral surface of brain.

3I. Lymphatic drainage of breast with its applied aspects.

3J. Adductor pollicis

3K. Microscopic structure of optic nerve.

3L. Histology of a cardiac muscle

3M. Spermatogenesis

3N. Yolk sac

3O. Karyotyping

(4 marks × 15 = 60 marks)



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Saturday, August 11, 2018

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 45 year old obese female presents to the surgical OPD with the complaint of spasmodic pain in the right upper quadrant of abdomen, vomiting and fever. The pain radiated to the epigastric, right scapular and right shoulder region. On examination tenderness was present in the right hypochondrium below the costal margin and it increased when asked to take deep inspiration. Based on the anatomy of this region answer the following questions.

- 1A. Name the organ which can be involved in this case
1B. Describe the parts and the duct of the organ
1C. Describe the blood supply of the organ
1D. Why does the pain radiate to the epigastric, right shoulder and right scapular region?
(1+4+2+3 = 10 marks)

2. Describe the pleura under the following headings:

- 2A. Parts
2B. Recesses
2C. Nerve Supply
2D. Blood supply
2E. Applied anatomy
(2+2+2+2+2 = 10 marks)

3. **Write short notes on:**

- 3A. Anterior relations of right and left kidneys
3B. Rectouterine pouch of Douglas
3C. Interior of the right ventricle
3D. Boundaries and contents of superior mediastinum
3E. Microscopic structure of trachea
3F. Development of adrenal gland
3G. Dorsalis pedis artery
3H. Perineal body
3I. Boundaries and contents of adductor canal
3J. Biceps femoris muscle
3K. Lumbar plexus
3L. Tibial collateral ligament
3M. Microscopic structure of duodenum
3N. Development of urinary bladder and anomalies
3O. Sesamoid bone

(4 marks × 15 = 60 marks)

