



All India Institute of Medical Sciences, Kalyani
First Professional MBBS Examination, August 2024

Time: 3 Hrs.

Anatomy (Paper-II)

Marks: 100

INSTRUCTIONS:

- Answer all questions.
- Illustrate your answers with well labelled diagram wherever necessary.
- Answer each section in a separate answer book.

SECTION – A (50 MARKS)

Head & Neck, Face and Special senses (with related histology and embryology)

Long answer question:

[10]

1. A 42-year-old woman presented to the emergency department with a severe headache, fever, and double vision. She reported feeling unwell for the past few days, with flu-like symptoms and a mild fever, but her symptoms had worsened over the past 24 hours. She had history of infection of upper incisor teeth. On examination, she was found to have a high fever, neck stiffness, and bilateral sixth nerve palsy (double vision). Her CT scan was suggestive of cavernous sinus thrombosis. Describe cavernous sinus under following headings: (2+6+2)
 - a. Location
 - b. Relations with neat labelled diagram
 - c. Explain the anatomical basis for spread of infection from upper incisor teeth to cavernous sinus.

Write Short notes on:

[5×5=25]

2. Arterial supply of thyroid gland.
3. Microscopic structure of Cornea.
4. Derivatives of pharyngeal arches
5. Ciliary ganglion
6. Functional component and nuclei of facial nerve

Answer in brief:

[5×3=15]

7. Explain anatomical basis of black eye.
8. Enumerate the Content of the Carotid Triangle
9. Write a brief note on pterion
10. Waldeyer's ring
11. Safety muscle of tongue

SECTION – B (50 MARKS)

[Thorax and Neuroanatomy (with related histology and embryology)]

Long answer question:

[10]

1. Describe in detail the right atrium under the following headings (2+3+2+3)
- External features
 - Internal features
 - Blood supply
 - Development

Write Short notes on:

[5×5=25]

- Inferior cerebellar peduncle
- Histology of cerebellum
- Arch of aorta
- Thoracic duct
- Draw a labelled diagram of the midbrain at the level of the superior colliculus

Answer in brief:

[5×3=15]

- Patient with pituitary tumour suffers from bitemporal hemianopia
- Anatomical basis of site of lumbar puncture in an adult.
- Write a brief note on joints formed by Manubrium sterni
- Embryological basis of anencephaly
- Coarctation of the aorta



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Anatomy (Paper-I)

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SECTION – A (50 MARKS)

General Anatomy, General Histology, General Embryology, Genetics, Upper Extremity and Lower Extremity

Long answer question:

[10]

1. After a difficult vaginal delivery, the baby presented with adducted arm with medial rotation, extended elbow with forearm pronated.
 - a. Name the structure that was most likely affected by the trauma of childbirth? (1)
 - b. Mention the term that is used to denote such an attitude of upper limb. (1)
 - c. Draw a neat labelled diagram of brachial plexus and enumerate its branches. (4+4)

Write Short notes on:

[5×5=25]

2. Enumerate the ligaments of knee joint, describe anterior cruciate ligament
3. Compare and contrast between hyaline cartilage and elastic cartilage
4. Gastrulation
5. Features of Down's syndrome.
6. Classify joints with examples of each type.

Answer in brief:

[5×3=15]

7. Explain the anatomical basis of varicose vein
8. Explain the embryological basis of ectopic pregnancy.
9. Pubic tubercle is important landmark for femoral and inguinal hernia
10. Explain the anatomical basis of weak extension at elbow due to radial nerve injury in the radial
11. Sartorius is called tailor muscle

SECTION – B (50 MARKS)

Abdomen, Pelvis & Perineum (with related histology and embryology)

Long answer question:

[10]

1. Describe in detail the Pancreas under the following headings. (1+5+1+3)
- Parts
 - Relations
 - Blood supply
 - Add a note on its development.

Write Short notes on:

[5×5=25]

- Supports of uterus
- Microscopic features of testis
- Development of kidney
- Interior of the anal canal
- Formation, Termination and tributaries of portal vein.

Answer in brief:

[5×3=15]

- McBurney's point.
- Enumerate the branches of internal iliac artery
- Explain the anatomical basis of extravasation of urine.
- Anatomical significance of duodenal cap
- Difference between small and large intestine