



**All India Institute of Medical Sciences, Kalyani**  
**First Professional MBBS Examination, September 2025**

**Time: 3 Hrs.**

**Anatomy (Paper-I)**

**Marks: 100**

**INSTRUCTIONS:**

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

**SECTION – B (40 MARKS)**

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

**Long answer question:**

**[1×10=10]**

1. A 35-year-old construction worker presents to the emergency department on a Monday morning with weakness and numbness in his right arm. He reports that he fell asleep on Saturday night while intoxicated, with his right arm draped over the back of a park bench for several hours. Upon awakening, he noticed he could not lift his wrist or extend his fingers properly. Describe **RADIAL NERVE** under following headings: (2+4+2+2)
  - a. Root value, mode of origin and termination
  - b. Course and relation
  - c. Branches and structures supplied by them
  - d. Anatomical basis of Saturday Night Palsy

**Write Short notes on:**

**[3×5=15]**

2. Derivatives of mesoderm
3. Course and distribution of obturator nerve
4. Microscopic structure of hyaline cartilage (description and a neat labelled diagram).

**Answer in brief:**

**[5×3=15]**

5. Features & examples of sesamoid bones.
6. What is morula?
7. Features of Down's syndrome
8. Anatomical basis of approach to pudendal block
9. Explain why Foot drop may occur after fracture of neck of fibula

**SECTION – C (40 MARKS)**

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

**Long answer question:**

**[1×10=10]**

1. A 35-year-old pregnant lady reported at the Gynaecology and obstetrics clinic with backache. Examination and Investigations revealed she had a retroverted uterus.
  - a. What is the normal position of the uterus? Explain the angle of ante-version and ante-flexion. (1+1)
  - b. Enumerate and briefly describe the Supports of the uterus. (4)
  - c. Briefly describe the vascular supply of the uterus. (2)
  - d. What is 'Pouch of Douglas'? Mention its clinical significance. (1+1)

**Write Short notes on:**

**[3×5=15]**

2. Development and anomalies of the pancreas.
3. Histology of the prostate gland.
4. Boundaries and contents of Inguinal canal

**Answer in brief:**

**[5×3=15]**

5. Explain why lesser curvature of stomach is more prone to gastric ulcer
  6. Brunner's gland
  7. List the zones of the adrenal cortex and their secretions.
  8. Name the major branches of the abdominal aorta supplying the gut.
  9. Boundary of epiploic foramen
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