

**FIRST PROFESSIONAL M.B.B.S. DEGREE EXAMINATION, FEBRUARY 2011****ANATOMY—Paper I****(New Scheme)****Time : Three Hours****Maximum : 50 Marks***Answer Sections A and B in separate answer-books.**Draw diagrams wherever necessary.**Question I should be answered first in the response sheet provided.***Section A****I. Multiple Choice Questions. (Separate sheet attached). (5 marks)**

**II. A 55-year old man experienced gripping chest pain on physical exertion. The pain was radiating to the inner side of left arm and was found to be relieved on rest. Based on your anatomical knowledge, answer the following questions :**

- (a) Name the organ that is affected in this case.
- (b) Give the most common cause leading to the symptoms presented by the man.
- (c) Name the arteries and their branches supplying the organ.
- (d) Give its venous drainage.
- (e) Name the investigations to be done in this case.

**(1 + 1 + 4 + 2 + 2 = 10 marks)****III. Write briefly on :**

- (a) Lymphatic drainage and blood supply of mammary gland.
- (b) Trilaminar germ disc.

**(2 × 5 = 10 marks)****Section B****IV. Write short notes on :**

- (a) Popliteal vein.
- (b) Rotator cuff of shoulder joint.
- (c) Deep branch of ulnar nerve.
- (d) Glandular epithelium.
- (e) Numerical chromosomal aberrations.

**(5 × 3 = 15 marks)**

V. Write short notes on :

- (a) Inversion of foot.
- (b) First carpometacarpal joint.
- (c) Costo-diaphragmatic recess.

(2 × 3 = 6 marks)

VI. Draw neat labelled diagrams of :

- (a) Transverse section through middle of arm.
- (b) Typical intercostal nerve showing origin and its branches.

(2 × 2 = 4 marks)

## I. MULTIPLE CHOICE QUESTIONS

## ANATOMY—Paper I

Time : 10 Minutes

Maximum : 5 Marks

Note.—(1) *Do not write anything on the question paper.*

(2) *Write your register number on the answer-sheet provided.*

(3) *Select the appropriate answer and encircle the alphabet against each question in the answer-sheet provided.*

(4) *In the answer-sheet enter the total number of your answers in the appropriate box provided.*

(5) *Each question carries  $\frac{1}{2}$  mark.*

1. The newly formed bone during growth and repair is called :

- (A) Woven bone. (B) Spongy bone.  
(C) Lamellar bone. (D) Compact bone.

2. The sixth pharyngeal artery gives rise to :

- (A) Arch of aorta. (B) Ductus caroticus.  
(C) Pulmonary artery. (D) Common carotid artery.

3. The muscle that acts on both hip and knee joint is :

- (A) Short head of Biceps. (B) Vastus medialis.  
(C) Adductor longus. (D) Semi tendinosus.

4. In the fracture of upper part of Humerus, sensory loss occurred over the lower half of deltoid muscle is due to the injury of the following nerve :

- (A) Radial. (B) Axillary.  
(C) Median. (D) Musculocutaneous.

5. Maternal blood circulating through the placenta is in direct with :

- (A) Cytotrophoblast. (B) Syncytiotrophoblast.  
(C) Extraembryonic mesoderm. (D) Foetal endothelium.

6. The claw hand is indicative of :

- (A) Klumpke's palsy. (B) Erb's palsy.  
(C) Dupuytren's contracture. (D) Volkmann's contracture.

7. The phrenic nerve supplies all structures except :

- (A) Fibrous pericardium. (B) Diaphragmatic pleura.  
(C) Pulmonary pleura. (D) Mediastinal pleura.

Turn over

8. Lymphatic follicles are absent in :
- |             |                  |
|-------------|------------------|
| (A) Thymus. | (B) Spleen.      |
| (C) Tonsil. | (D) Lymph nodes. |
9. Zona pellucida appears in the following stage of ovarian follicle :
- |                          |                        |
|--------------------------|------------------------|
| (A) Primordial follicle. | (B) Primary follicle.  |
| (C) Antral follicle.     | (D) Graafian follicle. |
10. Posterior one third of interventricular septum is normally supplied by the following artery :
- |                    |                     |
|--------------------|---------------------|
| (A) Left coronary. | (B) Right coronary. |
| (C) Circumflex.    | (D) Diagonal.       |

(10 × ½ = 5 marks)