

**SS/MBBS-I/ANA-I/11-23****First Professional MBBS Examination****2023****(November)****ANATOMY****Paper-I****Full Marks: 100****Time: 3 hours****The figures in the margin indicate****full marks for the questions****Write the answers to the two Halves in separate books****Answer all questions**

1. Choose the correct answer :

1x10=10

(i) Axillary artery is divided into three parts by \_\_\_\_\_ muscle.

(a) pectoralis major

(b) pectoralis minor

(c) teres major

(d) teres minor

(ii) The first carpometacarpal joint is \_\_\_\_\_ type of joint.

(a) ball and socket

(b) condyloid

(c) saddle

(d) hinge

(iii) Which of the following statements about histology of cardiac muscles is incorrect?

- (a) Intercalated disc is absent.
- (b) Muscle fibres show branching and anastomosing pattern.
- (c) Bundle of muscle fibres shows striations.
- (d) Nuclei are located centrally.

(iv) Which of the following constitute the hindbrain?

- (a) Diencephalon + Metencephalon
- (b) Mesencephalon + Metencephalon
- (e) Metencephalon + Myelencephalon
- (d) Diencephalon + Myelencephalon

(vi) Viability of ovum after ovulation is

- (a) 14 hours
- (b) 24 hours
- (c) 48 hours
- (d) 72 hours

(vii) Musculocutaneous nerve descends in the arm between two muscles namely

- (a) coracobrachialis and brachialis
- (b) brachialis and biceps
- (c) pectoralis major and subscapularis
- (d) biceps and coracobrachialis

(vii) Auricular branch of the vagus nerve is known as \_\_\_\_ nerve.

- (a) Arnold's.
- (b) Jacobson's
- (c) Gasserian
- (d) Meckel's

(viii) All the sinuses open in the middle \_\_\_\_\_ meatus, except

- (a) frontal
- (b) maxillary
- (c) ethmoid
- (d) sphenoid

(ix) The spinal cord ends at \_\_\_\_ level in adult: \_\_\_\_ \_\_\_\_

- (a) L1
- (b) L2
- (c) L3
- (d) L4

(x) Which of the following cranial nerves are related to midbrain?

- (a) I and II
- (b) III and IV
- (e) IV and V
- (d) V and VI

2. Describe the radial nerve underlying headings: \_\_\_\_\_ under the  
3+5+3+4=15

- (a) Origin and root value
- (b) Course and relations

- (c) Branches
- (d) Applied anatomy

3. Describe the pituitary gland under the following headings: \_\_\_\_\_,  
3+5+3+4=15

- (a) Location and parts
- (b) Blood supply and portal system
- (C) Development
- (d) Histology

4. A female patient came with the complaints of fever and headache especially in the forehead. After investigation, she was diagnosed as having sinusitis. On the basis of your anatomy knowledge, answer the following questions: \_\_\_\_\_  
1+4+3+2=10

- (a) Which paranasal air sinus is involved?
- (b) Describe different paranasal air sinuses. \_\_\_\_\_
- (c) Write the functions of paranasal air sinuses.
- (d) Write the applied importance.

5. Write short notes on (any seven) :  $5 \times 7 = 35$

- (a) Rotator cuff
- (b) Axillary lymph nodes
- (c) Branchial cyst
- (d) Histology of cerebral cortex with a labelled diagram
- (e) Development of spinal cord
- (f) Arachnoid granulations
- (g) Dangerous area of face

(h) Carotid sheath

6. Answer/Write on the following in short (any five) : 2 × 5 = 10

(a) Write two sites where stratified squamous non-keratinized epithelium is present.

(b) Name two dural venous sinuses.

(c) Muscles supplied by ulnar nerve in the forearm

(d) Parts of the diencephalon

(e) Name the muscles of mastication.

(f) Formation of Erb's point

7. Write the importance of body donation in cadaver learning. 5

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