

**SS/MBBS-1/ANA-1/02-23****First Professional MBBS Examination****2023****(February)****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****FIRST HALF**

1. For the following MCQ-type questions, choose and write the correct answers [a], {b}, {c} or {d} against the questions in the answer booklet :  $1 \times 10 = 10$

(i) Atlantic-occipital joint is which type of joint?

(a) Synovial joint of ellipsoid variety

(b) Pivot joint

(c) Hinge joint

(d) Syndesmosis

2. Write short notes on the following :  $5 \times 4 = 20$

(a) Brown-Séquard syndrome

(b) Colour blindness

(c) Programmed cell death

(d) Organ of Corti

3. Describe and discuss the role of a physician in health care system. 5

4. Choose the correct option from the following :  $1 \times 10 = 10$

(i) The word 'milieu interieur' is coined by

(a) Claude Bernard

(b) Sherrington

(c) Starling

(d) W. B. Canon

(ii) Testosterone is secreted by

(a) Sertoli cell

(b) Leydig cell

(c) spermatid

(d) granulosa cell

(vi) All dorsal interossei muscles are supplied by

(a) superficial branch of ulnar nerve

(b) deep branch of ulnar nerve -

(c) anterior interosseous nerve -

(d) palmar cutaneous branch of median nerve

(vii) Otic ganglion is located in

(a) pterygopalatine fossa

- (b) temporal fossa
- (c) infratemporal fossa
- (d) trigeminal impression

(viii) Pretrematic nerve of the first pharyngeal arch is

- (a) chorda tympani
- (b) mandibular
- (c) accessory
- (d) vagus

(ix) Fornix is an efferent system of

- (a) hypothalamus
- (b) epithalamus
- (c) thalamus
- (d) hippocampus

(x) Chondrocytes are present in

- (a) fibrocartilage
- (b) cancellous bone
- (c) loose areolar tissue
- (d) adipose tissue

2. Long answer-type question :

(a) Describe the larynx under the following headings : 2 + 4 + 6 + 3 = 15

- (i) Location
- (ii) Cartilages

(iii) Intrinsic muscles of larynx with nerve supply

(iv) Applied anatomy

(b) Describe the cerebellum under the following headings :  $4 + 5 + 2 + 4 = 15$

(i) Different parts with suitable diagram

(ii) Connections

(iii) Name of the nuclei

(iv) Histology

3. One female patient came with the complaint of swelling and pain on the medial half of the left palm with a history of pinprick on the middle phalanx of left little finger. On the basis of your anatomical knowledge, answer the following questions :  $3+3+2+2=10$

(a) Why does any infection easily spread from little finger to the medial side of the palm?

(b) What is pulp space?

(c) What is the applied importance of pulp spaces?

(d) Explain why in any infection of tip of the fingers, there is throbbing pain.

## SECOND HALF

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

(a) Median cubital vein

(b) Superior radioulnar joint-type, formation and movements

(c) Neural crest cells

(d) Histology of compact bone with labelled diagram

- (e) Cleft lip
- (f) Floor of fourth ventricle
- (g) Nerve supply of tongue
- (h) Waldeyer's ring

5. Answer/write on the following in short (any five) :  $2 \times 5 = 10$

- (a) Write two examples where ciliated columnar epithelium is present.
- (b) Different components of lacrimal apparatus
- (c) Skeletal derivatives of second pharyngeal arch
- (d) Name two paired venous sinuses.
- (e) Write the names of extraocular muscles
- (f) Write two characteristic features of histology of skeletal muscle.

6. AETCOM : 'Cadaver is a first teacher' of medical science. 5

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