

**SS/MBBS-I/ANA-I/01-22****First Professional MBBS Examination****2022****(January)****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 × 10 = 10]

(i) Brunner's glands are found in

(a) large intestine

(b) ileum

(c) stomach

(d) duodenum

(ii) The trachea is lined by

(a) non-keratinised stratified squamous epithelium

(b) cuboidal epithelium

(c) pseudostratified ciliated columnar epithelium

(d) ciliated columnar epithelium

(iii) The root value of radial nerve is

- (a) C<sub>5,6,7</sub>
- (b) C<sub>5,6,7,8</sub>,T<sub>1</sub>
- (c) C<sub>7,8</sub>,T<sub>1</sub>
- (d) C<sub>5,6</sub>

(iv) Which of the following is a sesamoid bone?

- (a) Patella
- (b) Femur
- (c) Hamate
- (d) Trapezium

(v) Colles' fracture is associated with

- (a) femur
- (b) ulna
- (c) radius
- (d) humerus

(vi) What connects two hemispheres of the brain?

- (a) Diameter
- (b) Pons
- (c) Corpus callosum
- (d) Diencephalon

(vii) The platysma is innervated by

- (a) facial nerve
- (b) accessory nerve
- (c) trigeminal nerve
- (d) glossopharyngeal nerve

(viii) The tensor tympani muscle is attached to the

- (a) incus
- (b) stapes
- (c) malleus
- (d) tympanic membrane

(ix) The nerve most likely to get injured in fracture of surgical neck of humerus is

- (a) musculocutaneous nerve
- (b) subscapular nerve
- (c) axillary nerve
- (d) radial nerve

(x) The most preferred vein for venipuncture is

- (a) cephalic vein
- (b) basilic vein
- (c) median cubital vein
- (d) brachial vein

2.a) Describe the mammary gland under the following headings: [2 + 3 + 3 + 4 + 3 = 15]

- (i) Extent
- (ii) Relation
- (iii) Blood supply
- (iv) Lymphatic drainage
- (v) Applied anatomy

b. Describe the scalp under the following headings: [2 + 3 + 3 + 3 + 4 = 15]

- (i) Extent
- (ii) Layers of the scalp
- (iii) Blood supply
- (iv) Nerve supply
- (v) Applied anatomy

3. A 58-year-old man is presented with a rapidly growing swelling of the parotid gland. On examination, there was inability to close the left eye and to blow the cheek. The angle of mouth was deviated to the right side. Based on your anatomical knowledge, answer the following questions: [3 + 3 + 2 + 2 = 10]

- (i) Briefly mention the external features and secretomotor innervations of the parotid gland.
- (ii) Name the structures lying within the gland and which of these is injured in this case.
- (iii) What is the reason for the inability to close the eye and to blow the cheek?
- (iv) Briefly mention the course of the parotid duct and the structures pierced by it.

4. Write short notes on (any seven): [5 × 7 = 35]

- (i) Histology of spleen with a labelled diagram
- (ii) Cervical group of lymph node
- (iii) Circle of Willis
- (iv) Carpal tunnel syndrome
- (v) Histology of testis with a labelled diagram
- (vi) Pronation and supination of forearm
- (vii) Klumpke's paralysis
- (viii) Blood supply of thyroid gland

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

- (i) Write two examples of modification of cell surface.
- (ii) Terminal branches of facial nerve
- (iii) Branches of axillary artery
- (iv) Name the white fibers of the brain.
- (v) Name the ossicles of the middle ear cavity.
- (vi) Two characteristic features of cardiac muscle

7. What does it mean to be a doctor? Discuss a physician's role and responsibilities to society and the community that he/she serves. [5]

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