

Date: 21-11-2023

1123 E348

First Year MBBS Examination

I MBBS Anatomy Paper 1

Time: 3 hours

Max Marks: 100

Instructions: 1. Answer to the points. 2. Figure to the right indicates marks. 3. Use separate answer books for each section. 4. Draw diagrams wherever necessary. 5. Write legibly.

Section 1

1. Write the following structured Long Question (any 1 out of 2) (10)

- a. Describe formation, relations, branches and applied anatomy of brachial plexus.
- b. Describe the movements, muscles causing movements, nerve supply and applied anatomy of shoulder joint.

2. Write the following Case based scenario/Applied short notes. (Any 2 out of 3)

(12)

- a. A 55 year old female complained to her family physician about hard painless lump in her right breast's upper & outer quadrant. Examination revealed peau de orange appearance of the skin, loss of mobility of breast and retraction of nipple. Examination revealed the enlargement of the axillary lymph nodes. The x ray of vertebral column revealed irregular shadows in the vertebral bodies of T6 and T7. She was diagnosed as case of breast cancer. Answer the following: (2+4=6). a) Mention anatomical basis of peau de orange appearance of the skin, loss of mobility of breast and retraction of nipple. b) What is the lymphatic drainage of the breast.
- b. A 50 year old lady reported to surgery OPD with the complaint of midline swelling in the front of the neck. The swelling has slowly increased in the size since last 3-4 months and is painless. On examination swelling was found to be moving with deglutition. On the basis of your knowledge of anatomy answer the following: describe this gland as follows neck in midline with hoarseness of voice since 3 months. Answer the following: (1+2+3=6). a) Name the gland involved in this case. b) Surfaces and their relations c) Blood supply.
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- c. A 72 year old female was brought to emergency room in unconscious state. History revealed she was diabetic and hypertensive. On examination it was found that she have left sided hemiplegia. CT scan revealed she had hemorrhagic stroke involving internal capsule. (1+2+3=6). a) What is internal capsule? b) Enumerate its different parts. c) Mention its blood supply

3. Write short notes (Any 3 out of 4) (18)

- Features of synovial joints with labelled diagram
- Compare and contrast the three types of cartilages
- Draw a neat labelled diagram and explain the microscopic structure of pituitary gland.
- Development of Tongue.

4. Answer only in 2-3 sentences (any 5 out of 6) (10)

- Mention three histological features in favour of identification of elastic artery
- Why the second week of development is called the 'week of two'?
- regarding osteomyelitis being common in growing bones answer the following: which is

the most common region of the bone affected?

Explain the anatomical basis for the
aforementioned region of disease

- d. Enumerate the skeletal components developed from the 1 pharyngeal arch.
- e. Enumerate the histological differences between the spleen and lymph node
- f. Enumerate the four derivatives of the neural crest cells

Section 2

5. Write the following structured Long Question
(any 1 out of 2) (10)

- a. Describe the larynx as follows. (3+4+3=10) a) cartilagenous framework. b) Intrinsic muscles, their actions and nerve supply c) applied aspects
- b. Describe the facial nerve as follows. (3+5+2=10) a) Nerve components and nuclei. b) Course and branches c) applied aspects

6. Write short notes (Any 2 out of 3) (12)

- a. Course, distribution and branches of ulnar nerve in hand
- b. Investing layer of deep cervical fascia
- ~~c. Enumerate the extraocular muscles with their~~

nerve supply and actions

7. Write short notes (Any 3 out of 4) (18)

- a. Functional areas on superolateral surface of cerebrum
- b. Draw and label transverse section of midbrain at the level of superior colliculus
- c. Floor of the fourth ventricle
- d. Describe the cavernous sinus under the following headings: location, relations, structures passing through

8. Answer only in 2-3 sentences (any 5 out of 6) (10)

- a. Enumerate the branches of external carotid artery
- b. Enumerate the nuclei of cerebellum
- c. Enumerate the layers of retina
- d. enumerate the structures passing under the flexor retinaculum of the wrist
- e. Enumerate the structures opening in the middle meatus of the nose
- f. Vincula longa & brevia