

2406000101010501
EXAMINATION SEPTEMBER 2024
(SUPPLEMENTARY EXAM)
FIRST MBBS
ANATOMY (PAPER - I) (NEW) - LEVEL 1

[Time: As Per Schedule]

[Max. Marks:100]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **FIRST MBBS**
- b. Name of the Subject : **ANATOMY (PAPER-I) (NEW) -LEVEL 1**
- c. Subject Code No : **2406000101010501**

- 2. Sketch neat and labelled diagram wherever necessary.
- 3. Figures to the right indicate full marks of the question.
- 4. All questions are compulsory.
- 5. Write each section in separate answer sheet.
- 6. Write to the point.

Seat No:

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Student's Signature

Section A

Q.1 Question 1. MCQs

20

- 1. Nutrient artery runs:
 - a. Towards metaphysis
 - b. Away from metaphysis
 - c. Away from epiphysis
 - d. None
- 2. Embryonic period of development is:
 - a. 1 to 3 weeks
 - b. 3 to 12 weeks
 - c. 1 to 8 weeks
 - d. 3 to 8 weeks
- 3. Acrosome cap of sperm is derived from:
 - a. Golgi body
 - b. Mitochondria
 - c. Nucleus
 - d. Centromere
- 4. Which of the following is NOT a connective tissue?
 - a. Blood
 - b. Muscle
 - c. Bone
 - d. Cartilage
- 5. Cords of Billroth are present in which part of spleen?
 - a. White pulp
 - b. Red pulp
 - c. Both
 - d. Capsules

6. Trachea is lined by:
- Stratified squamous epithelium
 - Ciliated columnar epithelium
 - Simple columnar epithelium..
 - Pseudostratified columnar epithelium
7. Smallest dural venous sinus is:
- Occipital sinus
 - Superior sagittal sinus
 - Cavernous sinus
 - Superior petrosal sinus
8. Facial colliculus located at:
- Pons
 - Medulla
 - Mid brain
 - Interpeduncular fossa
9. The tract that carries pain and temperature sensation is:
- Pyramidal tract
 - Lateral spinothalamic tract
 - Anterior spinothalamic tract
 - Spinocerebellar tract
10. Subarachnoid space ends at:
- D12
 - L2
 - L5
 - S2
11. Nervus spinosus is a branch of which of the following?
- Maxillary nerve
 - Mandibular nerve
 - Facial nerve
 - Nerve of pterygoid canal
12. Common carotid artery divides at the level of:
- Hyoid bone
 - Cricoid cartilage
 - Superior border of thyroid cartilage
 - Inferior border of thyroid cartilage
13. Protrusion of tongue NOT possible in damage of:
- Styloglossus
 - Hyoglossus
 - Palatoglossus
 - Genioglossus
14. Otic ganglion supplies:
- Submandibular gland
 - Lingual gland
 - Parotid gland
 - All three
15. Sinus of Morgagni is between:
- Middle constrictor and inferior constrictor
 - Middle constrictor and superior constrictor
 - Superior constrictor and skull
 - None of the above
16. Policeman's tip deformity occurs due to
- Erb's palsy
 - Median nerve palsy
 - Klumpke's palsy
 - Ulnar nerve palsy

17. Muscle of arm with additional supinator action:
 - a. Brachialis
 - b. Biceps brachii
 - c. Coracobrachialis
 - d. Triceps
18. The weight of the upper limb is transmitted to the axial skeleton by:
 - a. Coraco-clavicular ligament
 - b. Coraco-acromial ligament
 - c. Acromio-clavicular ligament
 - d. Coraco-humeral ligament
19. Which muscle does NOT take part in formation of dorsal digital expansion?
 - a. Interossei
 - b. Lumbricals
 - c. Extensor digitorum
 - d. Adductor pollicis
20. Contents of anatomical snuff box are all EXCEPT:
 - a. Radial artery
 - b. Superficial branch of radial nerve
 - c. Posterior interosseus nerve
 - d. Cephalic vein

Section B

Q.2 Case base question (two out of three)

16

1. A 32 year old man presents with inability to close his mouth. During history taking, patient told he had trauma during opening his mouth. After clinical and radiological examination, doctor made a diagnosis of dislocation of the temporo-mandibular joint. (1+2+3+2)
 - a) Write type and subtype of temporo-mandibular joint.
 - b) Name the factors maintaining the stability of this joint.
 - c) Name the muscles of mastication, action and nerve supply.
 - d) How to reduce the dislocation of temporo-mandibular joint?
2. A 40 year old female by profession computer operator consulted a physician with a complaints of sensation of 'pins and needle' on first 3 ½ fingers of her right hand. By examination physician noticed flattening thenar eminence and also pain was increased while flexing the wrist. (2+2+2+2)
 - a) What is this condition called? And which structure is affected?
 - b) Why patient is having 'pins and needle' over first 3 ½ digits?
 - c) Give anatomical basis of flattening of thenar eminence.
 - d) Which structure is cut surgically to relieve the symptoms?
3. A 22 year old male patient, was brought to the emergency department for head trauma. Radiological examination revealed fracture of the petrous part of temporal bone. After 2 days of hospital observation, patient developed blurred and double vision. During ophthalmic examination, the doctor noticed a medial squint. Doctor made a diagnosis of medial squint. (2+2+2+2)
 - a) What is medial squint? Name affected nerve.
 - b) Give anatomical basis of medial squint.
 - c) Write nerve supply of all extra-ocular muscles.
 - d) Draw a labeled diagram showing movements of eyeball.

Q.3 a) Write short note (two out of three) 10

1. Pectoralis major muscle: origin, insertion, nerve supply, action, applied anatomy
2. Axillary artery: course, relation, branches and applied aspect
3. Inter-muscular spaces of scapular region

b) Write short note on 10

- | | | |
|-----------------------------|-----------|-------------------|
| 1. Results of fertilization | OR | Folding of embryo |
| 2. Development of tongue | OR | Cleft palate |

c) Write short note (one out of two) 4

1. Blood supply of long bone
2. Connective tissue cells

Section C

Q.4 Long question (two out of three) 16

1. Posterior triangle of the neck: boundaries, roof, floor, contents and applied anatomy
2. Nerve supply of soft palate, pharynx and larynx
3. Describe the nasal septum with necessary diagram under the headings of: formation, nerve supply, blood supply and applied

Q.5 a) Write short note (two out of three) 10

1. Floor of the fourth ventricle with labeled diagram
2. Corpus callosum in detail s
3. Transverse section of midbrain at the level of superior colliculus with applied aspect

b) Write short note on 10

- | | | |
|------------------------|-----------|-----------------------------------|
| 1. Histology of spleen | OR | Histology of elastic cartilage |
| 2. Histology of cornea | OR | Histology of mixed salivary gland |

c) Write short note (one out of three) 4

1. Neuroglia
2. End artery
3. Gastrulation
