

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