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M. B. B. S. FIRST PROF. EXAMINATION
ANATOMY

Course No. Paper – I – MBANAT0001

Time Allowed: 3 Hours

Maximum Marks: 100

Note: *Attempt all questions. Attempt parts of questions in sequence. Illustrate your answers with well labeled diagrams wherever necessary.*

Multiple Choice Questions.

1. Multiple choice questions. Attempt all parts of Question No. 1
Each part carries two marks.

Write the most appropriate answer among the four choices given to the following questions:

- (i) Fibres arising from the promoter area 6 of cerebral cortex and ending in the ventral horn cells of the spinal cord are part of:
 - (a) The extrapyramidal tract
 - (b) The pyramidal tract

- (c) The medial descending pathway
- (d) The prepyramidal tract.

(ii) Torticollis is caused by:

- (a) Paralysis of sternocleidomastoid
- (b) Contraction of trapezius and sternocleidomastoid
- (c) Complete paralysis of trapezius
- (d) Avulsion of sternocleidomastoid

(iii) The depression separating the two cerebellar hemispheres on the anterior aspect is the:

- | | |
|------------|---------------|
| (a) Vermis | (b) Vallecule |
| (c) Folium | (d) Declive |

(iv) The nuchal lines extending from the external occipital crest are:

- (a) The superior nuchal lines
- (b) The inferior nuchal lines
- (c) The highest nuchal lines
- (d) The supreme nuchal lines

(v) Anterior condylar canal is the other name for:

- | | |
|-----------------------|---------------------|
| (a) Hypoglossal canal | (b) Jugular foramen |
| (c) Foramen lacerum | (d) Foramen magnum |

(vi) The optic canal is an opening between the roots of:

- (a) Lesser wing of sphenoid
- (b) Greater wing of sphenoid
- (c) Pterygoid process
- (d) Jugum sphenoidale

(vii) The first part of maxillary artery:

- (a) Is deep to the neck of mandible
- (b) Enters the pterygopalatine fissure
- (c) Enters the pterygoid canal
- (d) Passes between the two heads of lateral pterygoid

(viii) The masticatory muscle made prominent by clenching teeth is:

- | | |
|-----------------------|----------------------|
| (a) Lateral pterygoid | (b) Medial pterygoid |
| (c) Masseter | (d) Temporalis |

- (ix) Median cubital vein connects the
- (a) Brachial veins and the basilic vein
 - (b) Axillary vein and the cephalic vein
 - (c) Cephalic and the basilic vein
 - (d) Cephalic and the median cephalic vein
- (x) The following about deltopectoral groove are true except:
- (a) Cephalic vein runs in it
 - (b) It joins the apex of clavipectoral triangle
 - (c) It is between deltoid and pectoralis major
 - (d) It is supraclavicular in position.

(10 x 2 = 20)

Long Answer Type Questions

Note: Attempt all Long answer Type questions. Each question carries ten marks.

2. Describe layers of scalp along with their applied aspect. Add a note to its blood supply.

3. Describe formation, tributaries and drainage of cavernous sinus.
Briefly describe clinical importance of cavernous sinus.
4. Discuss gross anatomy, blood supply, histology and development of Thyroid gland.
5. Explain Shoulder Joint under following headings:
 - (a) Formation
 - (b) Ligaments
 - (c) Movements
 - (d) Nerve supply.

Short Answer Type Questions

Note: *Attempt all parts of Question No. 6. Each part carries five marks.*

6. Write short notes on:
 - (i) Cadaver is our first teacher
 - (ii) Ulnar nerve in hand

- (iii) Derivatives of 1st Branchial arch.
- (iv) Posterior horn of lateral ventricle
- (v) Down's syndrome
- (vi) Microscopic anatomy of tongue (diagram only)

7. Problem Based Questions

- (a) A patient complains of hoarseness and weakness of voice following surgery on upper pole of right lobe of Thyroid gland.
 - (i) What nerve may have been injured?
 - (ii) Name the artery accompanying this nerve.

(7)

(b) A baby was born after difficult forceps delivery and on examination the new born baby's arm was adducted and medially rotated and the forearm was extended and pronated.

(i) What is this condition called as?

(ii) Name the nerve roots involved.

(5)

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