

**ATAL BIHARI VAJPAYEE MEDICAL UNIVERSITY, LUCKNOW**
**MBBS I<sup>st</sup> PROFESSIONAL EXAMINATION - JAN -2023**
**SUBJECT : ANATOMY - PAPER - I**

Max. Marks : 100

TIME : 3 Hrs

Note: Attempt all questions. Answer Part - I and Part - II in separate answer books. All part of a question should be answered together.

**PART - I**
**PAPER CODE: 2311130001**

(3 + 4 + 4 + 4 = 15 Marks)

**Q.1 Long Answer Question**

A 12 year old boy came in O.P.D with complain of unilateral firm, warm, painful swelling of the cheek. Clinician observed that swelling was located between the ear and angle of jaw and was extremely painful. He made a clinical diagnosis of Parotitis. Answer the below mentioned questions.

Describe in detail the secretomotor pathway to Parotid gland via otic ganglion.

- What is the anatomical reason of extreme pain in parotid inflammation.
- Write note on surfaces & relations of parotid gland.
- Describe in detail the secretomotor pathway to Parotid gland via otic ganglion.
- Describe course & branches of facial nerve with in parotid gland.

(3 x 5 = 15 Marks)

**Q.2 Short Notes Questions (within 500 words)**

- Lacrimal apparatus
- Cavernous sinus & its applied anatomy.
- Development of neural tube & neural tube defects.

(5 x 2 = 10 Marks)

**Q.3 Short Answer Questions (within 100 words)**

- Write in brief the arterial supply of thyroid gland.
- Explain why infection is more common in the metaphyseal region of a growing long bone?
- What is Killian's dehiscence and its clinical significance?
- Enumerate muscles of mastication.
- Enumerate the branches of External carotid artery.

(10 x 1 = 10 Marks)

**Q.4 Multiple Choice Questions**
**1 Safety muscle of larynx is-**

- Lateral cricoarytenoid
- Posterior cricoarytenoid
- Transverse arytenoid
- Thyroarytenoid

**2 Coracoid process of scapula is an example of-**

- Pressure epiphysis
- Traction epiphysis
- Atavistic epiphysis
- Aberrant epiphysis

**3 Taste from anterior 2/3<sup>rd</sup> of tongue is taken by-**

- Facial nerve
- Glossopharyngeal nerve
- Hypoglossal nerve
- Vagus nerve

**4 Symphysis pubis is a variety of-**

- Primary cartilaginous joint
- Secondary cartilaginous joint
- Synovial joint
- both a & c

**5 In 32 days menstrual cycle ovulation occurs at-**

- 14th day
- 18th day
- 22nd day
- 24th day

**6 Surgical layers of scalp include all except-**

- Skin
- Connective tissue layer
- Aponeurotic layer
- Loose areolar tissue

**7 All supplied by mandibular nerve except -**

- Medial Pterygoid
- Lateral pterygoid
- Posterior belly of digastric
- Anterior belly of digastric

**8 Little's area is anastomosis of all arteries except -**

- lesser palatine artery
- Greater palatine artery
- Anterior ethmoidal artery
- Posterior ethmoidal artery

**9 Oculomotor nerve supplies all except -**

- Inferior rectus
- Superior rectus
- Medial rectus
- Lateral rectus

**10 Most common cause of bleeding after tonsillectomy-**

- Tonsillar branch of facial artery
- Branch from lingual artery
- Branch from descending palatine artery
- Paratonsillar vein

**PART - II**
**PAPER CODE:**
**2311230001**
**(2 + 3 + 3 + 7 = 15 Marks)**
**Q.1 Long Answer Question**

A 38-year-old woman visited a doctor with complaint of a hard painless lump in the upper outer quadrant of her left breast. On examination the doctor found that the breast was fixed and axillary lymph nodes were enlarged. radiograph of the vertebral column showed irregular shadows in the bodies of L<sub>1</sub> & L<sub>2</sub> vertebrae. Answer the below mentioned questions.

- What is the probable diagnosis & why was the breast fixed?
- Describe the morphology of Breast
- Blood supply of breast
- Give a detailed account of lymphatic drainage of breast & its applied aspect

**Q.2 Short Notes Questions (within 500 words)**
**(3 x 5 = 15 Marks)**

- Floor of fourth ventricle
- Visual pathway & visual field defects
- Motor speech area of Broca & sensory speech area of Wernicke

**Q.3 Short Answer Questions (within 100 words)**
**(5 x 2 = 10 Marks)**

- Explain why Median cubital vein is preferred for collecting blood samples and for giving intravenous injections?
- Carpal tunnel syndrome
- Enumerate the arteries taking part in formation of circle of willis.
- Enumerate four examples of Hyaline cartilage.
- Enumerate branches of axillary artery.

**Q.4 Multiple Choice Questions**
**(10 x 1 = 10 Marks)**

|                                                                                                                                                                                            |                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Muscles attached to the medial border of scapula are all except-<br>a) Serratus anterior<br>b) Rhomboideus major<br>c) Rhomboideus minor<br>d) Teres major                               | 2 Erb's palsy is due to injury of-<br>a) Upper trunk of brachial plexus<br>b) Lower trunk of brachial plexus<br>c) C8 root of brachial plexus<br>d) It is due to dislocation of shoulder joint                                  |
| 3 The brainstem consists of all of the following components except-<br>a) Midbrain<br>b) Pons<br>c) Cerebellum<br>d) Medulla oblongata                                                     | 4 All of the following are subdivisions of diencephalon except-<br>a) Thalamus<br>b) Mamillary bodies<br>c) Metathalamus<br>d) Subthalamus                                                                                      |
| 5 Clavipectoral fascia is pierced by all of the following structures except:<br>a) Cephalic vein<br>b) Thoraco-acromial artery<br>c) Medial pectoral nerve<br>d) Lymph vessels from breast | 6 Which of the following two muscles contract together while climbing a tree?<br>a) Latissimus dorsi & trapezius<br>b) Teres major & Teres minor<br>c) Teres major & Pectoralis major<br>d) Latissimus dorsi & Pectoralis major |
| 7 Fracture of which carpal bone is prone to avascular necrosis-<br>a) Lunate<br>b) Scaphoid<br>c) Pisiform<br>d) Hamate                                                                    | 8 Which of the following structures consists of both projection and commissural fibres?<br>a) Internal capsule<br>b) Pyramid<br>c) Cerebral fornix<br>d) Crus cerebri                                                           |
| 9 Term urothelium is used for-<br>a) Transitional epithelium<br>b) Pseudostratified epithelium<br>c) Simple columnar epithelium<br>d) Simple cuboidal epithelium                           | 10 Infection of index finger spreads to:<br>a) Midpalmar space<br>b) Thenar space<br>c) Radial bursae<br>d) Dorsum of hand                                                                                                      |