

**Shahabuddin Medical College**  
**Department of Anatomy**  
**Superior Extremity Card Final Examination**

Time: 1h.20m  
 Total Marks: 40

SM- 22 (Session 2024-2025)  
 Date: 29.10.2025

Written & MCQ+SBA: 40+10= 50 marks. 1.30 hrs.

**Instructions:**

- Questions number 1, 2 & 3 are mandatory.
- Answer any FOUR from questions number 4 to 8.
- Illustrate your answers with a diagram as far as practicable.

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 01. | Describe the Lymphatic Drainage of the Upper Limb (use diagram). Define fertilization. Describe the process or phases or events of fertilization (use diagram). Mention its results.<br><br>OR<br>How elbow joint formed? Name the muscles with their origin, insertion, nerve supply, and action involved in different movements of the elbow joint in a tabulated form. Define and classify joints with examples.                                                                                                                                                                                                                                                                                                                                                                            | 4+6=10<br><br>1.5+4.5+4=10 |
| 02. | A 54-year-old executive officer was feeling severe pain in his right shoulder after falling down from the stairs. On examination the doctors observed that the he was sitting on the stool with right arm by the side of his body and he was supporting his right elbow with his left hand. The inspection of right shoulder revealed loss of its normal rounded contour and loss of skin sensations in the lower half of the deltoid region. He was diagnosed as a case of dislocation of right shoulder.<br>a. Why shoulder joint is commonly dislocated?<br>b. What is the most common type of shoulder dislocation?<br>c. What is the cause of loss of normal rounded contour of the shoulder?<br>d. What is the cause for loss of skin sensation in the lower half of the deltoid region? | 1+1+1+2=5                  |
| 03. | A. Draw & label the anastomosis around the elbow joint<br>B. Draw & label the superficial and deep palmar arch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.5+2.5=5                  |
| 04. | Describe the lymphatic drainage of the mammary gland (use diagram). Classify bones morphologically with example.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.5+1.5=5                  |
| 05. | Define implantation. Describe the process of implantation (use diagram). Mention the root value and clinical importance of the radial nerve & ulnar nerve.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3+2=5                      |
| 06. | Mention the boundaries & contents of the cubital fossa (use diagram). Differentiate between the three cartilages macroscopically (any 3) and microscopically (any 3).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2+3=5                      |
| 07. | Define dermatome. Draw & label the dermatome of the upper limb. what do you mean by Erb's pulsy?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.5+1.5=5                  |
| 08. | Write briefly on<br>I. Anatomical snuff box- definition, formation & functions (use diagram).<br>ii. Retinaculum (flexor & extensor)- definition, formation & functions (use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2+3=5                      |



**Department of Anatomy**  
**Shahabuddin Medical College**  
**Thorax Card Final Examination**

Time: 1h.20m

Total Marks: 40 (Pass marks: 24)

SM- 21 (Session 2023-2024)

Date: 26.09. 2024

Written & MCQ: 40+10= 50 marks. 1.30 hrs.

**Instructions:**

- Questions number 1 & 2 are mandatory.
- Answer any five from questions number 3 to 8.
- Illustrate your answers with a diagram as far as practicable.

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 01. | Describe the artery supply of the heart ( <u>origin</u> , <u>course</u> , <u>branches</u> , and <u>termination</u> ) using <u>diagram</u> . What do you mean by <u>Anterior</u> , <u>Posterior</u> , <u>Lateral</u> , <u>Sagittal</u> section & <u>Coronal</u> section?<br>OR<br>Give the origine, nerve supply, functions & the major opening with the vertebral level of the diaphragm & gives their contents. What do you mean by <u>Superior</u> , <u>Inferior</u> , <u>Medial</u> , <u>Horizontal/Transverse</u> section & <u>Oblique</u> section?                                                                                                                                                                                                                                                                  | 7.5+2.5=10<br><br>7.5+2.5=10 |
| 02. | A 30-year-old female visited the hospital and complained that she had been feeling severe pain on the right side of her chest for the past two weeks and had little difficulty in breathing. She also said that pain often radiated to the anterior abdominal wall. On auscultation, the doctor noticed the absence of breath sounds over the inferior lobe of her right lung. The X-ray chest PA view revealed blunting of the right costodiaphragmatic angle and line of fluid level. She was diagnosed as a case of pleural effusion.<br>Questions-<br>1. What is pleural effusion?<br>2. Enumerate the recesses of the pleura.<br>3. What is the anatomical basis of radiation of pain to the anterior abdominal wall?<br>4. Mention the causes of pleural effusion and the site where pleural fluid collects first. | 1+1+1+2=5                    |
| 03. | Define bronchopulmonary segment. Mention the characteristic features & clinical importance of the bronchopulmonary segment. What is respiratory distress syndrome (RDS)?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.5+2-1.5=5                  |
| 04. | Draw & label the <u>venous drainage of the posterior thoracic wall</u> . Explain why the manubrium sternum is clinically important.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3+2=5                        |
| 05. | Define & classify mediastinum. Mention the boundaries & contents of the middle mediastinum (use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2+3=5                        |
| 06. | Write briefly on-<br>I. Parietal pleura (layers, parts & nerve supply)<br>II. Pericardium (layers, nerve supply & importance)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.5+2.5=5                    |
| 07. | Define bone & give its morphological classification with an example. Differentiate the three types of cartilage at least any five in a tabulated form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.5+2.5=5                    |
| 08. | What is intercostal space & typical intercostal space? State the steps of dissection of a typical intercostal space.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2.5+2.5=5                    |



# Shahabuddin Medical College

## Department of Anatomy

### Superior Extremity Card Final Examination

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Time: 1h.20m                                                                                                                                                                                                                                            | SM- 22 (Session 2024-2025) |
| Total Marks: 40                                                                                                                                                                                                                                         | Date: 29.10.2025           |
| Written & MCQ+SBA: 40+10= 50 marks. 1.30 hrs.                                                                                                                                                                                                           |                            |
| <b>Instructions:</b> <ul style="list-style-type: none"> <li>• Questions number 1, 2 &amp; 3 are mandatory.</li> <li>• Answer any FOUR from questions number 4 to 8.</li> <li>• Illustrate your answers with a diagram as far as practicable.</li> </ul> |                            |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 01. | Describe the Lymphatic Drainage of the Upper Limb (use diagram). Define fertilization. Describe the process or phases or events of fertilization (use diagram). Mention its results.<br><br>OR<br>How elbow joint formed? Name the muscles with their origin, insertion, nerve supply, and action involved in different movements of the elbow joint in a tabulated form. Define and classify joints with examples.                                                                                                                                                                                                                                                                                                                                                                            | 4+6=10<br><br>1.5+4.5+4=10 |
| 02. | A 54-year-old executive officer was feeling severe pain in his right shoulder after falling down from the stairs. On examination the doctors observed that the he was sitting on the stool with right arm by the side of his body and he was supporting his right elbow with his left hand. The inspection of right shoulder revealed loss of its normal rounded contour and loss of skin sensations in the lower half of the deltoid region. He was diagnosed as a case of dislocation of right shoulder.<br>a. Why shoulder joint is commonly dislocated?<br>b. What is the most common type of shoulder dislocation?<br>c. What is the cause of loss of normal rounded contour of the shoulder?<br>d. What is the cause for loss of skin sensation in the lower half of the deltoid region? | 1+1+1+2=5                  |
| 03. | A. Draw & label the anastomosis around the elbow joint<br>B. Draw & label the superficial and deep palmar arch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.5+2.5=5                  |
| 04. | Describe the lymphatic drainage of the mammary gland (use diagram). Classify bones morphologically with example.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.5+1.5=5                  |
| 05. | Define implantation. Describe the process of implantation (use diagram). Mention the root value and clinical importance of the radial nerve & ulnar nerve.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3+2=5                      |
| 06. | Mention the boundaries & contents of the cubital fossa (use diagram). Differentiate between the three cartilages macroscopically (any 3) and microscopically (any 3).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2+3=5                      |
| 07. | Define dermatome. Draw & label the dermatome of the upper limb. what do you mean by Erb's palsy?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.5+1.5=5                  |
| 08. | Write briefly on<br>i. Anatomical snuff box- definition, formation & functions (use diagram).<br>ii. Retinaculum (flexor & extensor)- definition, formation & functions (use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2+3=5                      |



# Shahabuddin Medical College

## Department of Anatomy

### Superior Extremity Card Final Examination

Time: 1h.20m

SM- 21 (Session 2023-2024)

Total Marks: 40

Date: 27.11.2024

Written & MCQ: 40+10= 50 marks. 1.30 hrs.

#### Instructions:

- Questions number 1 & 2 are mandatory.
- Answer any five from questions number 3 to 8.
- Illustrate your answers with a diagram as far as practicable.

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 01. | Describe the steps of dissection of the axilla pointing out its skin incision, boundaries, and contents (use diagram). Write briefly on the axillary group of lymph nodes and their area of drainage (use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6+4=10       |
|     | OR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |
|     | Describe the lymphatic drainage of the upper limb (use diagram). Differentiate between the paired terms "Erb's palsy" and "Wrist drop" (any two).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6+4=10       |
| 02. | A 35-year-old mother was crossing the road along with her 3-year-old son. After seeing a speeding car rushing towards them she suddenly pulled her son away by holding his left hand to avoid danger of being crushed by the car. The child cried out and later refused to use his left upper limb. The mother took the child to the doctor. On examination the doctor noticed that the child held his left forearm in a position with elbow semiflexed and forearm pronated. A diagnosis of 'pulled elbow' was made.<br>Questions-<br>1. What is a pulled elbow?<br>2. Why is pulled elbow common in preschool (1-3-year-old) children?<br>3. How can a pulled elbow be reduced /treated? | 1.5+1.5+2=05 |
| 03. | Define dermatome. Draw and label the dermatome of the upper limb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1+4=05       |
| 04. | Describe the lymphatic drainage of the mammary gland (use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 05           |
| 05. | Explain from your knowledge of anatomy why/ how:<br>I. Ulnar nerve palsy leads to ulnar claw hand.<br>II. Median cubital vein is clinically important                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2.5+2.5=05   |
| 06. | Write down the origin, insertion, nerve supply & action of the triceps muscle, biceps brachii muscle, and serratus anterior muscle in a tabulated form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 05           |
| 07. | Write briefly on:<br>a) Anatomical snuff box- boundaries and importance<br>b) Flexor retinaculum of the hand- formation, relation, and importance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2.5+2.5=05   |
| 08. | Draw and label the brachial plexus of the nerve.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 05           |



**Shahabuddin Medical College**  
**Department of Anatomy**  
**Abdomen Card Final (supplementary)**

Time: 1hr.20 m  
 Total Marks: 40

SM- 21(Session 2023-2024)  
 Date: 19.04.2025

**Instructions.**

- Question number 1, 2, 3 are mandatory.
- Answer any four from question number 4 to 8.
- Illustrate your answers with a diagram as far as practicable.

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 01. | Define gametogenesis. what do you mean by capacitation and acrosomal reaction? Draw and label a blastocyst.                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2+2+3+3=10   |
|     | OR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |
| 02. | Describe the formation and contents of the rectus sheath (use diagram). What is the linea alba and give its clinical importance.                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7+3=10       |
| 02. | A 65-year-old male patient was admitted in the hospital with the following complaints: progressive jaundice, pale greasy stools, itching of skin, loss of appetite and weight, and back pain. On examination the doctors found palpable gallbladder and ascites. After thorough investigations he was diagnosed as a case of "carcinoma of the head of pancreas".<br><br>1. What is Courvoisier's law?<br>2. What are the important posterior relations of the head of pancreas?<br>3. Give the source of development of common bile duct and main pancreatic duct | 1.5+1.5+2= 5 |
| 03. | Draw and label the histological/ light microscopic structure of the (ANY TWO)<br>a) Kidney      b) Liver      c) Appendix                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2.5+2.5 = 5  |
| 04. | Describe the lymphatic drainage of the stomach (use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 05           |
| 05. | Describe the trigone of the urinary bladder (use diagram). Mention the effects of sympathetic (two) and parasympathetic (two) innervation on the urinary bladder.                                                                                                                                                                                                                                                                                                                                                                                                  | 3+2 = 5      |
| 06. | Explain anatomically/ developmentally why/how:<br>a. Inguinal hernia is common in males.<br>b. Portal obstruction may cause hemorrhage per anus.                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.5+2.5 = 5  |
| 07. | Mention the supports of the uterus. What is ante flexion and ante version of the uterus (use diagram)?                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+2=5        |
| 08. | Define spermatogenesis. Draw and label the histological structure of the testis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2+3=5        |



# Shahabuddin Medical College

## Department of Anatomy

### Thorax Card Final

Time: 1 hour 30 minutes  
Total Marks: 50

SM- 22 (Session 2024-2025)  
Date: 11.09.2025

Written & MCQ + SBA: 40 + 10 = 50 marks. 1.30 hours

#### Instructions.

- Question number 1, 2 & 3 are mandatory.
- Answer any four from question number 4 to 8.
- Illustrate your answers with a diagram as far as practicable.

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 01. | Define and classify mediastinum (use diagram). Describe the boundaries and contents of the superior mediastinum (use diagram). What is mediastinum syndrome? Draw and label a typical intercostal nerve.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2+3+1.5+3.5=10 |
|     | OR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |
|     | Define bronchopulmonary segments. Draw and label the bronchopulmonary segments of the both lung. What do you mean by respiratory distress syndrome (RDS). Why does a normal lung appear radiolucent in a chest X-ray PA view?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.5+5+2+1.5=10 |
| 02. | A 30-year-old female visited the hospital and complained that she had been feeling severe pain on the right side of her chest for past two weeks and has little difficulty in breathing. She also told that pain often radiated to the anterior abdominal wall. On auscultation, the doctor noticed the absence of breath sounds over the inferior lobe of her right lung. The X-ray chest PA view revealed blunting of right costodiaphragmatic angle and line of fluid level. She was diagnosed as a case of pleural effusion.<br>Question-<br>1. What is pleural effusion?<br>2. Explain the basis of radiation of pain to the anterior abdominal wall?<br>3. Mention the cause of pleural effusion and the site where pleural fluid collects first. | 1.5+1.5+2= 5   |
| 03. | Draw and label:<br>a. Venous drainage of the posterior thoracic wall.<br>b. Interior of the right atrium of the heart.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2.5+2.5 = 5    |
| 04. | Describe the artery supply of the heart (origin, course, and distribution- use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5              |
| 05. | Explain anatomically/ developmentally why/ how:<br>a. Manubrium sternum is the preferred site for bone marrow aspiration.<br>b. Foreign body is more commonly lodges in the right principal bronchus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.5+2.5 = 5    |
| 06. | Define pleura and mention its layers, parts and nerve supply (use diagram). Draw and label the lymphatic drainage of the lung.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3+2 = 5        |
| 07. | Write briefly on:<br>a. Thoracic duct - beginning, course and termination<br>b. Esophagus - extension, length, and constriction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.5+2.5 = 5    |
| 08. | Give the nerve supply, actions, and origin (use diagram) of the diaphragm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2+3=5          |



**Shahabuddin Medical College**  
**Department of Anatomy**  
**Superior Extremity Card Final Examination**

Time: 1h.20m  
 Total Marks: 40

SM- 22 (Session 2024-2025)

Date: 29.10.2025

Written & MCQ+SBA: 40+10= 50 marks. 1.30 hrs.

**Instructions:**

- Questions number 1, 2 & 3 are mandatory.
- Answer any FOUR from questions number 4 to 8.
- Illustrate your answers with a diagram as far as practicable.

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 01. | Describe the Lymphatic Drainage of the Upper Limb (use diagram). Define fertilization. Describe the process or phases or events of fertilization (use diagram). Mention its results.<br><br>OR<br>How elbow joint formed? Name the muscles with their origin, insertion, nerve supply, and action involved in different movements of the elbow joint in a tabulated form. Define and classify joints with examples.                                                                                                                                                                                                                                                                                                                                                                                | 4+6=10<br><br>1.5+4.5+4=10 |
| 02. | A 54-year-old executive officer was feeling severe pain in his right shoulder after falling down from the stairs. On examination the doctors observed that the he was sitting on the stool with right arm by the side of his body and he was supporting his right elbow with his left hand. The inspection of right shoulder revealed loss of its normal rounded contour and loss of skin sensations in the lower half of the deltoid region. He was diagnosed as a case of dislocation of right shoulder.<br><br>a. Why shoulder joint is commonly dislocated?<br>b. What is the most common type of shoulder dislocation?<br>c. What is the cause of loss of normal rounded contour of the shoulder?<br>d. What is the cause for loss of skin sensation in the lower half of the deltoid region? | 1+1+1+1+2=5                |
| 03. | A. Draw & label the anastomosis around the elbow joint<br>B. Draw & label the superficial and deep palmar arch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2.5+2.5=5                  |
| 04. | Describe the lymphatic drainage of the mammary gland (use diagram). Classify bones morphologically with example.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.5+1.5=5                  |
| 05. | Define implantation. Describe the process of implantation (use diagram). Mention the root value and clinical importance of the radial nerve & ulnar nerve.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3+2=5                      |
| 06. | Mention the boundaries & contents of the cubital fossa (use diagram). Differentiate between the three cartilages macroscopically (any 3) and microscopically (any 3).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2+3=5                      |
| 07. | Define dermatome. Draw & label the dermatome of the upper limb. what do you mean by Erb's palsy?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.5+1.5=5                  |
| 08. | Write briefly on<br>i. Anatomical snuff box- definition, formation & functions (use diagram).<br>ii. Retinaculum (flexor & extensor)- definition, formation & functions (use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2+3=5                      |



# Shahabuddin Medical College

## Department of Anatomy

### 1<sup>st</sup> Term Re-supplementary Examination

Time: 1 hour  
Total Marks: 40

SM- 21 (Session 2023-2024)  
Date: 17.09.2025

Written = 40 marks

Time = 1 hour

#### Instructions.

- Answer all questions.
- Illustrate your answers with a diagram as far as practicable.

|     |                                                                                                                                                                                                                         |               |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 01. | How is the elbow joint formed? Mention the type of the elbow joint. Name the muscles producing these movements with their nerve supply.                                                                                 | 2+3= 5        |
| 02. | Describe the boundaries and contents of the cubital fossa (Use diagram).                                                                                                                                                | 5             |
| 03. | Draw and label:<br>a. A typical intercostal nerve<br>b. Different parts of the developing long bone                                                                                                                     | 2.5+2.5 = 5   |
| 04. | Give the developmental process of the interatrial septum (Use diagram). What is dextrocardia?                                                                                                                           | 4+1 = 5       |
| 05. | Explain anatomically/ developmentally why/ how: (Any two)<br>a. SA node is called the pacemaker of the heart<br>b. Sternal angle is an important landmark<br>c. Antecubital vein is preferred for intravenous injection | 2.5+2.5 = 5   |
| 06. | Describe the steps of dissection of the axilla pointing out its skin incision, boundaries and contents. Write briefly on axillary group of lymph nodes & their area of drainage.                                        | 1.5+2+1.5 = 5 |
| 07. | Describe the esophagus, pointing out its commencement, length, and constriction with vertebral level (use diagram).                                                                                                     | 5             |
| 08. | Mention the layers of the pericardium. State its nerve supply. What is coronary predominance?                                                                                                                           | 1.5+2+1.5 = 5 |



**Shahabuddin Medical College**  
**Department of Anatomy**  
**1<sup>st</sup> Term Re-supplementary Examination**

Time: 1 hour 15 minutes  
 Total Marks: 50

SM- 21 (Session 2023-2024)  
 Date: 17.09.2025

Written = 50 marks

Time = 1.15 hours

**Instructions.**

- Answer all questions.
- Illustrate your answers with a diagram as far as practicable.

|     |                                                                                                                                                                                                                                          |               |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 01. | Classify connective tissue proper. Name the connective tissue cells. Mention the structure and functions of the 'Plasma cell' and 'Fibroblast'.                                                                                          | 2+2+2+2=8     |
| 02. | Write down the blood supply, and lymphatic drainage of the mammary gland (use diagram). Give the age-related structural changes of the mammary gland. What is 'peau d' orange' appearance?                                               | 3.5+1.5+1= 6  |
| 03. | Draw and label the light microscopic structure of the:<br>a. Haversian system of compact bone<br>b. Cardiac muscle                                                                                                                       | 3+3 = 6       |
| 04. | Define dermatome and myotome. Draw and label the dermatome of the upper limb, showing the axial lines.                                                                                                                                   | 2+4 = 6       |
| 05. | Explain anatomically/ developmentally why/ how:<br>a. The deltoid muscle is preferred site for intramuscular injection<br>b. The foramen ovale persists throughout the intrauterine life<br>c. The right lung is more prone to infection | 2+2+2 = 6     |
| 06. | Define joint. What are the characteristic features of the synovial joint? Write down the differences between complex and compound types of synovial joint.                                                                               | 1.5+2.5+2 = 6 |
| 07. | Give the differences between the following paired terms:<br>a. 'Primary ossification center' and 'Secondary ossification center'<br>b. 'True ribs' and 'False ribs'<br>c. 'Barr body' and 'Polar body'                                   | 2+2+2 = 6     |
| 08. | Write briefly on:<br>a. Trachea – commencement, termination and structure<br>b. Flexor retinaculum of hand – formation and relations<br>c. Somite - definition, number, and importance                                                   | 2+2+2 = 6     |



**Department of Anatomy**  
**Shahabuddin Medical College**  
**1<sup>st</sup> Term Written Examination**

Time: 3.00 hrs.

SM- 21 (Session 2023-2024)

Total Marks: 100 (Pass marks: 60)

Date: 09.12. 2024

Written & MCQ+SBA: 80+10+10= 100 marks 3.00 hrs.

**Instructions:**

- Questions number 1, 2 (Group- A), & 9, 10 (Group- B) are mandatory.
- Answer any five from questions number 3 to 8 (Group- A) and 11 to 16 (Group- B)
- Illustrate your answers with a diagram as far as practicable & use separate scripts.

**GROUP- A**

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 01. | Describe the lymphatic drainage of the mammary gland (use diagram). What do you mean by peau d'orange? What do you mean by clavipectoral fascia?<br>OR<br>Write down the boundaries and contents of the middle mediastinum (use diagram). Define mediastinum syndrome and mention its manifestations.                                                                                                                                                                                                                                                                                                                                                                                                              | 6+2+2=10<br><br><br><br><br><br><br><br><br><br>6+2+2=10 |
| 02. | A baby boy was delivered in the hospital by an obstetrician by pulling baby's head using forceps (forceps delivery). Two weeks later the parents took the baby to the pediatrician for check-up. While examining the baby, the pediatrician found that baby's right arm was <u>medially rotated</u> and <u>adducted</u> while his <u>forearm</u> was <u>extended</u> and <u>pronated</u> . He also noticed <u>sensory loss</u> on the lateral aspect of the right upper limb.<br>1. Name the position of upper limb of baby observed by the pediatrician.<br>2. Which position of the limb is characteristic of this clinical condition?<br>3. Name the site of lesion and the cause that produced this condition. | 2+1.5+1.5=05                                             |
| 03. | Classify connective tissue. Name the connective tissue cells and give their functions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.5+3.5=05                                               |
| 04. | Define bronchopulmonary segment. Draw & label the bronchopulmonary segment of both lungs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 01+04=05                                                 |
| 05. | Draw & label the histological structure/ light microscopical structure of the<br>a. Compact bone<br>b. Hyalin cartilage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.5+2.5=05                                               |
| 06. | How superior and inferior radio-ulnar joint is formed? Name the muscles with their origin, insertion, nerve supply & actions involved in superior and inferior radio ulnar joint movements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.5+3.5=05                                               |
| 07. | Write briefly on:<br>I. Effect of stimulation of vagus nerve on the heart.<br>II. Flexor retinaculum.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.5+2.5=05                                               |
| 08. | Describe the venous drainage of the heart (use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 05                                                       |



**Department of Anatomy**  
**Shahabuddin Medical College**  
**Term- I Written Examination**

Time: 3.00 hrs.

SM- 22 (Session 2024-2025)

Total Marks: 100 (Pass marks: 60)

Date: 15.11. 2025

Written & MCQ+SBA: 80+20= 100 marks 3.00 hrs.

**Instructions:**

- Questions number 1, 2, 3 & 9, 10, 11 are mandatory.
- Answer any 4 (FOUR) from questions number 4 to 8 and 12 to 16
- Illustrate your answers with a diagram as far as practicable.

**GROUP- A**

(Thorax, Upper Limb, General Embryology, General Histology & General Anatomy)

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                    |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 01 | Describe the events of the second weeks of development. What is bilaminar germ disc? Explain why 2 <sup>nd</sup> weeks of the development is called week of twos?<br><br>OR<br>Define Gametogenesis. Describe the steps of spermatogenesis. Differentiate between mitosis and meiosis in a tabulated form at least 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6.5+1.5+2=10<br><br>OR<br>2+4+4=10 |
| 02 | A 55-year-old female complained to her family physician of hard painless lump in the upper and outer portion of her right breast. The examination of breast revealed peau d'orange appearance of the skin, loss of mobility of breast, and retraction of nipple. The examination of axilla revealed the enlargement of axillary lymph nodes. The X-ray of vertebral column revealed irregular shadows in the vertebral bodies of T6 and T7 vertebrae. She was diagnosed as a case of the breast cancer.<br>Questions-<br>a. What do you understand of lump in the breast? What are its common causes?<br>b. Mention the anatomical basis of peau d'orange appearance of skin, retraction of nipple and loss of mobility of the breast.<br>c. Name the three muscles lying deep to the base of the breast.<br>d. What is the venous route of the spread of breast cancer?<br>e. What is the commonest site of the breast cancer? | 1×5=5                              |
| 03 | Draw & label the brachial plexus.<br>Draw & label the bronchopulmonary segment of the both lungs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2+3=5                              |
| 04 | Describe the venous drainage of the heart (use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5                                  |
| 05 | Draw & label the posterior intercostal arteries and posterior intercostal veins.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.5+2.5=5                          |
| 06 | Describe the venous drainage of the upper limb (use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5                                  |
| 07 | Name the apical cell surface modification (use diagram) and gives their functional significance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5                                  |
| 08 | Describe the process of formation of the neural tube (use diagram). Mention the derivatives of neuroectoderm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3+2=5                              |

*Spindle  
pseudo  
stratified  
ciliated  
columnar  
epithelium*



**GROUP- B**

(Thorax, Upper Limb, General Embryology, General Histology &amp; General Anatomy)

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 09. | Define cell cycle. Mention the different phases, checkpoints of the cell cycle and gives their functions (use diagram). Write down the types, composition & functions of the chromosome.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1.5+5+3.5=10 |
|     | OR<br>Write down the definition & composition of the bone. Mention the functions of the bone cells. Draw & label the artery supply of a growing long bone. Differentiate between primary & secondary cartilaginous joint in a tabulated form at least 4 (four).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2+2+3+3=10   |
| 10. | A 60-year-old man visited a cardiologist and complained that he was feeling pressure/tightness within his chest, accompanied by profuse sweating and pain in the left precordium which is radiating along the medial side of the arm and forearm. On questioning he told that earlier also he suffered from such symptoms which always occurred on exertion, e.g., when climbing stairs or digging in the garden. He also told that these symptoms disappear after resting. He was diagnosed as a case of angina pectoris.<br>Questions-<br>a. What is angina pectoris?<br>b. Mention the anatomical basis of pain felt in the region of left precordium and medial side of the arm and forearm.<br>c. Name the arteries which supply the cardiac muscle and mention their origin.<br>d. What is the difference between the angina pectoris and myocardial infarction (MI)? | 1+1+1+2=5    |
| 11. | Draw & label the lymphatic drainage of the breast.<br>Draw & label the dermatome of the upper limb.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.5+2.5=5    |
| 12. | Define supination and pronation? Name the muscles with their origin, insertion and nerve supply involve in the supination and pronation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2+3=5        |
| 13. | Define and classify the Connective tissue? Name the connective tissue fibers with their locations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2+3=5        |
| 14. | Name the parts of the respiratory tract from nose to the alveoli of the lung? Mention the structural & functional differences between conducting & respiratory zone of the respiratory tract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.5+3.5=5    |
| 15. | Define fertilization. Write down the phases of fertilization & mention its results.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.5+3.5=5    |
| 16. | Write briefly on-<br>i) Capacitation, ii) Acrosomal reaction, iii) Blastocyste, iv) Morula                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1.25×4=5     |





### GROUP- B

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 09. | Define mitosis and meiosis. Describe the process of mitosis (use diagram).<br>Mention three important differences between mitosis and meiosis.<br><br>OR<br>Define and classify epithelial tissue with two examples. Mention the characteristic features of the epithelial tissue. Mention at least three functions of the cytoskeleton of a cell.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2+5+3=10     |
| 10. | A 25-year-old final year medical student told his Professor of Anatomy that he often feels pain in his right upper limb, and his radial pulse becomes feeble especially during exercise. He also told that sometimes he feels pain that radiates along the medial side of his forearm and hand. On examination, the professor noted a bony swelling in the root of the neck on the right side. X-ray neck revealed normal cervical spine. Chest X-ray, however, revealed the presence of cervical rib on the right side. The student was referred to an orthopedic surgeon who after physical examination and seeing reports advised the student to have his cervical rib removed, otherwise the vascular problem would worsen.<br>1. What is cervical rib?<br>2. Which structure is likely to be compressed by the cervical rib?<br>3. What complication could occur if the cervical rib is not removed? | 2+1.5+1.5=05 |
| 11. | Describe the venous drainage of the upper limb (use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 05           |
| 12. | Describe the interior of the right atrium (use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5            |
| 13. | Define gametogenesis. Describe the steps of spermatogenesis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.5+3.5=5    |
| 14. | Name the parts of the respiratory tract from nose to the alveoli of the lung? Mention the structural & functional differences between conducting & respiratory zone of the respiratory tract (at least 4).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.5+2.5=5    |
| 15. | Write briefly on-<br>I. Rotator cuff.<br>II. Divisions and lining epithelium of the right bronchial tree.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2.5+2.5=5    |
| 16. | Explain from your knowledge of anatomy why/ how:<br>a. Surgical neck of the humerus is clinically important<br>b. Crossing over occurs in the meiotic cell division                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.5+2.5=5    |



# Shahabuddin Medical College

## Department of Anatomy

### 2<sup>nd</sup> Term Supplementary Examination

Time: 3hr

Total Marks: 100 (Pass marks: 60)

SM- 21 (Session 2023-2024)

Date: 24. 05. 2025

Written & MCQ: 80+10+10= 100 marks. 3 hours

#### Instructions:

- Question number 1, 2, 3 (group A) & 9, 10, 11 are mandatory.
- Answer any four from question number 4 to 8 (group A) & 12 to 16 (group B).
- Illustrate your answers with a diagram as far as practicable.

#### GROUP - A

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 01. | Define capacitation and acrosomal reaction. Write down the steps of spermatogenesis (use diagram). Draw and label the corpus luteum.                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2+5+2=10   |
|     | OR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |
|     | How ankle joint is formed (use diagram)? Name the muscle with their nerve supply involved in different movements of the ankle joint in a tabulated form.<br>Explain that anatomically deep peroneal nerve injury leads to foot drop.                                                                                                                                                                                                                                                                                                                                      | 4+4+2=10   |
| 02. | An educated mother brought her 6-month-old son to the hospital and complained that the right scrotum of her son was empty. On physical examination, the doctors found the presence of the testis only in the left half of the scrotum and a small swelling about 1.5 cm in diameter in the inguinal region on the right side. A clinical diagnosis of "cryptorchidism" was made. Questions<br>1. What is cryptorchidism?<br>2. What are the disadvantages of cryptorchidism?<br>3. Enumerate the factors responsible for descent of testis.<br>4. What is ectopic testis? | 1+1+2+1= 5 |
| 03. | Draw and label the histological/ light microscopic structure of<br>a. The gallbladder<br>b. The ovary                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2.5+2.5=5  |
| 04. | Write down the posterior relation of the neck of the pancreas. Write down the structures crossed by the root of the mesentery (use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                              | 2+3 =5     |
| 05. | Explain using your understanding of anatomy why/how:<br>a. An enlarged prostate causes difficulty in micturition.<br>b. Pouch of Douglas is clinically important.                                                                                                                                                                                                                                                                                                                                                                                                         | 2.5+2.5=5  |
| 06. | Define implantation. Mention the day-by-day account of the major events of the second week of development (use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1.5+3.5=5  |
| 07. | Differentiate between the following paired terms.<br>a) 'Medial longitudinal arch' and 'lateral longitudinal arch'<br>b) 'Great saphenous vein' and 'small saphenous vein'                                                                                                                                                                                                                                                                                                                                                                                                | 2.5+2.5=5  |
| 08. | Mention the different position of the vermiform appendix (use diagram). Differentiate between the large intestine and small intestine (macroscopically and microscopically).                                                                                                                                                                                                                                                                                                                                                                                              | 2.5+2.5=5  |

*Answer*



Answer

GROUP -B

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 09. | Name the muscles of the anterolateral abdominal wall with their nerve supply. Define rectus sheath, mention the formation and contents of the rectus sheath (use diagram). Draw and label the different regions of the anterior abdominal wall.<br>OR<br>Write a brief about the histological structure of the liver (use diagram). Mention 3 (three) differences between the hepatic lobule & portal lobule. What is the space of the Disse in liver?                                                                                                                                                                                                                                                                                                                                   | 2+6+2=10<br>5+3+2=10 |
| 10. | A few days after the removal of the plaster cast for fracture of the upper end of the right fibula, the patient complained of loss of sensation on the lateral aspect of the lower part of the leg and dorsum of the foot. On examination, the doctor found a loss of sensation on the lateral aspect of the lower part of the leg and dorsum of the foot except on the lateral side of the little toe, in the interdigital cleft between the first and second toes and medial margin of the foot up to the head of the first metatarsal bone. Patient was also unable to dorsiflex and evert his right foot.<br>Question-<br>1. Name the nerve injured in this patient.<br>2. Name the site, where common peroneal nerve is easily palpated.<br>3. Name the chief evertors of the foot. | 1.5+1.5+2=5          |
| 11. | Draw and label<br>a) Retinaculum of the lower limb.<br>b) Femoral triangle of the lower limb.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.5+2.5=5            |
| 12. | Write down the relations of right lateral surface of the liver (use diagram). Mention its clinical importance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.5+1.5=5            |
| 13. | Describe the lymphatic drainage of the lower limb (use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |
| 14. | Explain anatomically/ developmentally why/how:<br>a) Why soleus is called peripheral heart.<br>b) Undescended testis causes infertility.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2.5+2.5=5            |
| 15. | Name the Hamstring group of the muscle of the thigh and mention their origin, insertion, nerve supply and action in tabulated form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |
| 16. | Write down the length, parts, and constrictions of the ureter (use diagram). Explain anatomically why the ureteric pain is severe in nature.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.5+1.5=5            |

transverse  
Rectus abdominis



# Shahabuddin Medical College

## Department of Anatomy

### 2<sup>nd</sup> Term final examination

Time: 3hr

Total Marks:100 (Pass marks:60)

SM- 21 (Session 2023-2024)

Date: 04.05.2025

Written & MCQ +SBA: 80+10+10 =100 marks 3.00 hours

#### Instructions.

- Question number 1,2,3 (group A) & 9,10,11 (group B) are mandatory.
- Answer any four from question number 4 to 8(group A) & 12 to 16(group B).
- Illustrate your answers with a diagram as far as practicable and use separate scripts.

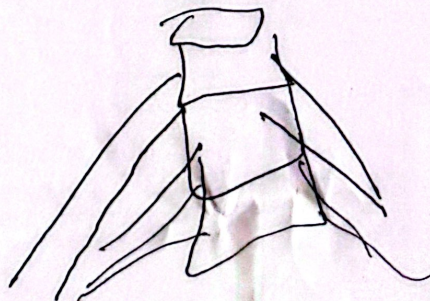
#### GROUP-A

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 01 | Describe the processes of fertilization (use diagram). Mention its results. Draw and label the mature graafian follicle.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5+2+3=10    |
|    | OR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |
| 02 | Describe the venous drainage of the lower limb (use diagram). Name the factors responsible for venous return of the lower limb. What do you mean varicose vein?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6+2+2=10    |
| 02 | A 55-year-old woman complained that for the past 1 year she had frequently passed blood-stained stools and recently she noticed that one rounded mass protrudes out from her anus during straining at stool. After defecation, she is able to push it back inside the anus. The proctoscopic examination revealed three pink coloured swellings located at 3, 7, and 11 o'clock positions with the patient in lithotomy position. The swellings bulged downward when the patient was asked to strain. A diagnosis of internal hemorrhoids was made. 3, 7, and 11 o'clock positions.<br>Questions<br>1. What are the internal and external hemorrhoids?<br>2. What is the site of occurrence of internal piles?<br>3. Why the internal hemorrhoids painless and the external hemorrhoids are painful? | 2+1+2=5     |
| 03 | Draw and label the histological structure/ light microscopical structure of-<br>A) The Testis B) The Appendix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.5+2.5=5   |
| 04 | Describe why the kidneys ascend during development. Draw and label the anterior relations of both kidneys.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.5+2.5=5   |
| 05 | Explain anatomically/ developmentally why/how:<br>a. 2 <sup>nd</sup> week of development is called the week of twos.<br>b. mucous membrane of GIT provides extensive surface area for absorption.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2.5+2.5 = 5 |
| 06 | Mention the origin, insertion, nerve supply and action of the following muscles in a tabulated form-<br>I. Gluteus maximus<br>II. Psoas major                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.5+2.5 = 5 |
| 07 | Write down the formative elements and factors maintaining the stability of the hip joint. Explain why the medial meniscus is damaged much more frequently than the lateral.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.5+1.5=5   |
| 08 | Describe the interior of the anal canal. Mention the histological structure of the large gut.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3+2=5       |



## GROUP-B

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 9.  | Describe the histological structure of the liver. Mention 3 (three) differences between the hepatic lobule & portal lobule of the liver. What do you mean by the space of the Mall in liver?<br>OR<br>Write down the lymphatic drainage of the stomach (use diagram). Give its clinical importance. Why does ulceration of the stomach usually occur along the lesser curvature of the stomach?                                                                                                                                                                                                                                                                                                                                                                                                              | 5+3+2=10<br><br>5+2+3=10 |
| 10. | A final year medical student, while playing football received a blow on the lateral side of his right knee and fell on the ground. He felt sharp pain on the medial aspect of the right knee and was not able to extend the leg on the same side. He was taken to the hospital where the examining doctor found that his right knee was swollen especially above the patella. Drawer's sign was negative. The radiograph of the knee did not reveal any fracture. He was diagnosed as a case of torn medial meniscus of the knee joint.<br>Question-<br>1. Enumerate the main intracapsular structures of the knee joint?<br>2. Why is the injury of medial meniscus more common than that of a lateral meniscus?<br>3. What is the cause of swelling of the knee especially above the patella in this case? | 1.5+1.5+2= 5             |
| 11. | Draw and label the<br>A) Dermatome of the lower limb ✓<br>B) Blastocyst ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2.5+2.5=5                |
| 12. | Mention the supports of the uterus. Name the parts of the uterine tube and give the histological structure of the uterine tube (use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2+1+2 = 5                |
| 13. | Explain from your knowledge of anatomy why/ how:<br>a. fracture of the neck of the fibula causes foot drop.<br>b. physiological hernia occurs in intrauterine life.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2.5+2.5 = 5              |
| 14. | Mention the formation and maintenance of the medial longitudinal arch of the foot. Give the derivatives of the neural crest cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.5+1.5=5                |
| 15. | Mention the steps of dissection, boundaries, and contents of the popliteal fossa (use diagram).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2+3=5                    |
| 16. | Describe the interior of the urinary bladder (use diagram). Give the nerve supply of the urinary bladder and mention the effects of the nerve supply over the urinary bladder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3+2=5                    |





**Shahabuddin Medical College**  
**Department of Anatomy**  
**3<sup>rd</sup> Term Re-supplementary Examination**

Time: 1 hour  
 Total Marks: 40

SM- 21 (Session 2023-2024)  
 Date: 16.09.2025

Written = 40 marks. 1 hour

**Instructions.**

- Answer all questions.
- Illustrate your answers with a diagram as far as practicable.

|     |                                                                                                                                                                   |               |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 01. | Describe the developmental process of the tongue (use diagram) and give its nerve supply on the basis of developmental background. What is tongue tie?            | 3+2 =5        |
| 02. | Name the muscles of the soft palate with their nerve supply. How does the cleft palate develop? What do you mean by the Babinski sign?                            | 2+1.5+1.5 = 5 |
| 03. | Draw and label the light microscopic structure of the:<br>a. Cornea<br>b. Thin skin                                                                               | 2.5+2.5 = 5   |
| 04. | Give the commencement, course, and termination of the <u>pyramidal tract</u> (use diagram).                                                                       | 5             |
| 05. | Explain anatomically/ histologically / developmentally why/ how:<br>a. Pneumatic bones are present in the skull<br>b. Middle ear infection is common in children  | 2.5+2.5 = 5   |
| 06. | Give the formation of the nasal septum. Write down the boundary and contents of the carotid triangle (use diagram). Give the functions of the amygdaloid nucleus. | 1.5+3.5 = 5   |
| 07. | Write down the origin, insertion, and actions of <u>masseter</u> and <u>frontalis</u> muscles. What do you mean by <u>anterograde amnesia</u> ?                   | 3.5+1.5 = 5   |
| 08. | Describe the formation, circulation, and absorption of <u>CSF</u> . Draw and label the layers of the scalp                                                        | 3.5+1.5 =5    |



**Shahabuddin Medical College**  
**Department of Anatomy**  
**3<sup>rd</sup> Term Supplementary Examination**

Time: 1 hour 30 minutes  
 Total Marks: 50

SM- 21 (Session 2023-2024)  
 Date: 16.09.2025

Written = 50 marks. 1.30 hours

**Instructions.**

- Answer all questions.
- Illustrate your answers with a diagram as far as practicable.

|     |                                                                                                                                                                                                                                                                |               |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 01. | Give the developmental process of the thyroid gland mentioning its developmental anomalies (use diagram). Name the cells present within the thyroid gland. Explain why thyroid gland moves with deglutition?                                                   | 4+1.5+1+1.5=8 |
| 02. | State the derivatives of the neural crest cells. What are the components of the basal nuclei. State the functions of the limbic system.                                                                                                                        | 2+2+2= 6      |
| 03. | Draw and label the light microscopic structure of the:<br>a. Cerebellum<br>b. Lymph node                                                                                                                                                                       | 3+3 = 6       |
| 04. | Describe the interior of the larynx (use diagram). State the motor and sensory nerve supply of the larynx. Mention the name of the laryngeal cartilages.                                                                                                       | 2+2+2 = 6     |
| 05. | Explain anatomically/ developmentally why/ how:<br>a. Loose areolar tissue called the dangerous area of the scalp<br>b. Inflammation of the parotid gland is more painful<br>c. Purkinje cells form the center of the functional unit of the cerebellar cortex | 2+2+2 = 6     |
| 06. | Describe the boundaries and contents of the middle ear cavity (use diagram). Draw and label the Midbrain at the level of the superior colliculus.                                                                                                              | 3+3 = 6       |
| 07. | Write briefly on:<br>a. Paranasal air sinus – location and functions<br>b. Formation of hypophyseal portal system<br>c. Piriform fossa – boundary and importance                                                                                               | 2+2+2 = 6     |
| 08. | Mention the components of the lymphatic system. Write down the factors helping tissue fluid to enter in the lymph capillaries. Give the differences between lymph capillaries and blood capillaries                                                            | 2+2+2= 6      |