



# **RASHIDA IQBAL FINANCIAL AID ORGANIZATION**

## **1<sup>ST</sup> YEAR GENERAL ANATOMY TEST GUIDELINES**

**RIFAO Guidelines for G.A.**

### **Recommended Books and Material:**

➔ **General Anatomy by Laiq Hussain Siddiqui.**

### **Important Questions :**

- Chapter 2 complete (**Definitions** can be asked in **SEQ + V.v.imp** for **Viva**).
- Complete classification of bones with examples.
- Development of bones (Intramembranous + Intracartilaginous Osteogenesis).
- Bone fracture and healing.
- Blood supply of long bone.
- Cartilages and types with distribution.
- All the classification of joints (Complete with examples) (**V.v. Imp**).
- Hilton's Law.
- Types of Muscular tissue.
- Classification of Skeletal Muscles on the basis of :
  - \*Shape and fibre architecture.
  - \*Group of action.
- Muscle paralysis/plegia & types.
- Red , white and intermediate muscle fibres.
- Classification of blood vessels :
  - \*Anatomical Classification.
  - \*Functional Classification.
- Capillaries, their types and their occurrence.

- Types of Arterial Anastomosis.
- Langer's lines and Kraissl's lines.
- Integumentary System ( Just read Ch. 7 for MCQs).
- Naming in Sequence of 12 pairs of Cranial Nerves.
- Sympathetic and Parasympathetic outflow and their other names.
- Classification of Neurons.
- Types of Supporting/Glial Cells of CNS & PNS.
- Enteric Nervous System.
- Spinal Nerves , their naming and pattern of emergence of spinal nerves.
- Imaging Technology ( Just give a read to Ch. 9 for MCQs)

Remember RIFAO Team in your prayers !

Regards:

Muhammad Hamza Naseer (2<sup>nd</sup> Year).

Publication Representative

RIFAO

## PAST PAPERS

Define a premature baby; mention its TWO types. List SIX causes of intrauterine growth retardation.

Define complex joint; mention THREE examples from upper limb. Explain the movements of uniaxial complex joint of upper limb which has pivot structural appearance. Why screws, nuts and bolts are tightened with the right hand by all the persons (irrespective of handedness)?

Define carcinoma of breast; explain the anatomical facts regarding the various ways of its metastasis. (How you will diagnose the advanced state of cancer of breast?

Classify

- (a) What is decidua/placental septum? Discuss the features of fetal and maternal side of term placenta.
  - (b) Enumerate the derivatives of neural crest cells. Discuss chorionic villous sampling.
  - (a) Describe the development of somites.
  - (b) Write the important events taking place in 4<sup>th</sup> and 5<sup>th</sup> months of fetal period. What is Down syndrome?
  - (a) Classify muscles on the basis of their physiological action.
  - (b) Give characteristics of embalming fluid.
  - (a) Discuss formation of spinal nerve.
  - (b) Define anastomosis. What are different types of arterio-arterial anastomosis?
  - (a) Tabulate the histological differences between Hyaline, fibro, and Elastic Cartilage.
  - (b) Draw and label microscopic structure of Lymph node.
- Write short notes on:

Marks: 45 Time Allowed 2 hours and 15 min

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Attempt ALL Questions.

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What is an ellipsoid joint? What movements are possible at ellipsoid joints? Give an example of the ellipsoid joint from the upper limb.

Name different types of stratified epithelia. What are the chief structural features of urothelium (transitional epithelium)?

Max. Marks 45 Time Allowed: 2 hours and 15 min

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Attempt all questions.

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1. a) What is meant by "Anatomical Position" of human body?  
 b) Briefly mention four fundamental anatomical planes used to study human body.

2. A person was brought to emergency with history of being attacked by honey bees followed by formation of cutaneous wheals and urticaria.

- b. Why tumor contains various types of tissue derived from all germ layers? (2)
- c. Is there any sex related prevalence in this case? (1)
- 5 a. Classify synovial joints on the basis of morphology with examples. (3)
- b. Explain the levers of first class with diagram. (2)
- 6 a. Name the different factors affecting the ossification of bones. (3)
- b. What is growing end hypothesis. (2)
- 7 a. Define osteon; give differences between primary and secondary bone tissue. (2.5)
- b. What are the effects of calcium deficiency on bone tissue? (2.5)
- 8 a. Enumerate different modifications present on apical, lateral and basal surface of significance? (3)
- b. Give the ultrastructure of desmosomes. (2) ✓
- 9 Draw and label histological structure of hyaline cartilage. (5)
- 10 a. Enumerate the cells of connective tissue (2)

Time Allowed 2 Hours and 15

Attempt ALL Questions.

- a) What are pennate muscles? Give their types with one example of each type.
- b) What is the difference between complex and compound joints? Give one example of each. Why osteomyelitis is more common in children?

Draw and label light microscopic picture of transitional epithelium. What is its other name and why? Mention its function.

Write the formation and structure of blastocyst.

- b. Which processes are required before the beginning of
2. a. Describe process of notochord formation.
- b. Enumerate the derivatives of mesoderm and endoderm
3. a. Classify synovial joints on the basis of their function.
- b. Differentiate between red and white muscle.
4. What is the structure of compact bone?
5. a. Draw and label urothelium
- b. Enumerate intercellular junctions and discuss the tight
6. a. Compare and contrast unilocular and multilocular adipose
- b. Draw and label dense irregular connective tissue

- b. Write short on amniocentesis.
4. a. Discuss the arrangement of fetal membranes in Monozygotic and Dizygotic tw  
b. Give differences between omphalocele and Gastroschisis in tabulated form.
5. a. Give morphological classification of synovial joints with examples.  
b. Define osteon. Give differences between primary and secondary bone tissue.
6. a. Give formation of superficial and deep cardiac plexuses.  
b. Draw and label mediastinal surface of right lung.
7. a) Describe venous drainage of lower limb.  
b. Write short note on deep venous thrombosis.

Marks: 45

Time Allowed 2 Hours and 15 mi

Attempt ALL Questions.

- a) Define a spinal nerve and name various spinal nerves existing in human body with their number.
- b) Write the pattern of emergence of various spinal nerves from vertebral column.
- a) Draw and label the transverse section of light microscopic picture of



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