

---

**SESSIONAL SAMPLE PAPER FOR D. PHARM—1<sup>st</sup> YEAR.**

- **SUBJECT— HUMAN ANATOMY AND PHYSIOLOGY..**  
➤ **COVER TOPICS (CHAPTER- 1, 2 &3).**

**I. Long answer type questions (Answer 3 out of 4) 3 x 5 = 15.**

1. What is histology? And discuss about the various types of tissues.
2. Write a short note on cell division with diagrammatic representation.
3. Discuss about Importance of anatomy and physiology in daily life.
4. Define the cell & discuss about the various cell organelles or components of the cell.

**II. Short answer type questions (Answer 5 out of 6). 5 x 3 = 15.**

1. Define the cell communication & give the details about G-protein linked receptors.
2. Give the diagrammatic view of cell & label the all components of the cell.
3. Discuss the different abdominal region with example.
4. What do you means about connective tissue? And discuss different types of connective tissue.
5. Define the various anatomical position of the body.
6. Define the different forms of Intracellular signaling.

**III. Very short answer type questions (Answer all 10 out of 10) 10 x 1 =10.**

**A. Answer the following questions.**

1. Define the different symmetry used in the anatomy.
2. Define the terms.
  - a. Immunology b. Endocrinology.
3. Define the receptors? And write the name of different signaling receptors.
4. Draw the structure of Mitochondria.
5. Define the transport through Exocytosis and Endocytosis.

## NOTESKARTS

---

### B. Multiple choice questions.

1. Major parts of liver present in this region.
  - a. Hypogastric b. Umbilical c. Epigastric d. right iliac
2. Tissues are developed by which germinal layers.
  - a. Ectoderm b. Mesoderm c. Endoderm d. all of these.
3. Which junction are responsible, to stop substances leaking?
  - a. Adhering b. Gap c. Tight d. all of these.
4. Total thickness of the cell membrane is----
  - a. 85Å b. 75Å c. 65Å d. 68Å.
5. Choose the correct statements.
  - a. Thymus and spleen is the primary lymphoid organs.
  - b. Bone marrow and thymus is the primary lymphoid organs.
  - c. Spleen, tonsils, and lymph nodes are the example of primary lymphoid organs.
  - d. All are correct.

### C. Fill in the blanks.

1. Starting end of the joint represent the----- end (Proximal, distal).
2. Study of defensive mechanism show by body is known as----- (Endocrinology, Immunology).
3. Epithelial tissue absorb the nutrition from----- Tissue( muscular, connective)
4. Many molecules can move across the membrane by using the energy is called----- transport (Active, passive).
5. ----- endoplasmic reticulum is responsible for lipid synthesis in cell (Rough, smooth).