

Human Anatomy & Physiology-1 IMP QUESTIONS

UNIT-1 (2M):

1. Define Anatomy and Physiology along with its scope.
2. Define Homeostasis.
3. What is feedback system.
4. Define cell. Write the functions of mitochondria.
5. Differentiate mitosis and meiosis.
6. Differentiate Phagocytosis and Pinocytosis.
7. Define: 1. Facilitated transport 2. Osmosis transport.
8. Differentiate exocrine and endocrine signaling.
9. Define Autocrine and Juxtacrine signaling.
10. Define tissue and its types with examples.

(5M + 10M)

- 1) Draw a labelled diagram cell showing its cell organelles and their function.
- 2) Define tissue and its types in detail.
- 3) What is cell cycle and explain in detail.
- 4) What is cell division and explain its types.
- 5) What are different cell junctions.
- 6) Explain cell signaling and cell communication.
- 7) What is homeostasis and explain its feedback mechanism.

UNIT-2 (2M):

1. Define skin and its functions.
2. Enlist the layers of skin.
3. Define muscle tone
4. Differentiate osteoclast and osteoblast.
5. Define skeletal system and its functions.
6. Differentiate tendon and ligament.
7. Define muscle contraction.
8. Define neuromuscular junction
9. Explain largest and shortest bones of human body
10. Name the largest nerve of human body.
11. Define: 1. Joint 2. Synovial joint with examples.

(5M + 10M)

- 1) Explain the physiology of muscle contraction.
- 2) Write in details about structure and functions of skin.
- 3) Write a note on different types of joints.
- 4) Write features and functions of bones of axial and appendicular skeletal system.
- 5) Write in details about synovial joints and their function with the help of diagram.

UNIT-3 (2M):

1. Define blood.
2. Classify blood groups.
3. What is haemoglobin.
4. Define Artery and Vein.
5. Define: 1. blood Pressure 2. Hematopoiesis 3. Erythropoiesis 4. Anaemia.
6. Explain blood transfusion.
7. Explain reticulo-Endothelial System.
8. Define blood coagulation and enlist its pathways.
9. What is lymph.

(5M + 10M)

- 1) Write about coagulation of blood.
- 2) Explain the process of haemoglobin formation in brief.
- 3) Write about composition and functions of blood.
- 4) Write a note on anemia with its types.
- 5) Write an explanatory note on lymphatic system.
- 6) Discuss about ABO blood group system.

UNIT-4 (2M):

1. Differentiate sympathetic and parasympathetic nervous system.
2. Differentiate spinal nerves and cranial nerves.
3. What is Astigmatism.
4. Write the functions of tongue.
5. Write the functions of Rod and cone cells.
6. Explain the bones present in human ear.
7. Define eye and explain its functions.

(5M + 10M)

- 1) Different between sympathetic and parasympathetic nervous system.
- 2) Write a note sympathetic and parasympathetic nervous system.
- 3) Explain cranial nerves along with their functions.
- 4) Explain spinal nerves along with their functions.
- 5) Draw a well labelled diagram of eye with its parts and function.
- 6) Draw label and explain the structure and function of nose.

UNIT-5 (2M):

1. Define Heart and its functions.
2. Define ECG.
3. Define Cardiac Output.

(5M + 10M)

- 1) Explain the physiology and anatomy of heart.
- 2) Explain in details about blood circulation of heart with the help of diagram and conduction system of heart.