

End Semester / Reappear (Semester I) Examination December 2022

Programme: B.Pharm

Full Marks: 75

Course: Human Anatomy and Physiology I

Time: 3Hrs.

Course Code: BP101T

Enrollment No: _____

Section I

1. Objective type questions. Answer all questions.

20x1=20

- i. Study of the different structures of the human body is called
 - (a) Physiology
 - (b) Anatomy
 - (c) Pathology
 - (d) Epidemiology
- ii. Basic structural and functional unit of the body is called
 - (a) Tissue
 - (b) Cell
 - (c) Organelle
 - (d) Nucleic acid
- iii. The Powerhouse of the cell is
 - (a) Lysosome
 - (b) Nucleus
 - (c) Mitochondria
 - (d) Golgi bodies
- iv. This type of cell division is characterized by the formation of germ cells
 - (a) Mitosis
 - (b) Meiosis
 - (c) Both a and b
 - (d) None
- v. These muscles are present in the inner linings of the stomach
 - (a) Smooth muscles
 - (b) Cardiac muscle
 - (c) Skeletal muscle
 - (d) None
- vi. Gaps in tubular myelin sheath in the peripheral myelinated nerves are interrupted at their terminals are known as
 - (a) Axon
 - (b) Nodes of Ranvier
 - (c) Dendrites
 - (d) Nissl bodies
- vii. The layer of the epidermis that contains melanocytes is the
 - (a) Stratum spinosum
 - (b) Stratum lucidum
 - (c) Stratum basale
 - (d) Stratum corneum
- viii. Protective functions of the skin include all of the following except protection
 - (a) Against water loss
 - (b) Against infections
 - (c) Against harmful chemicals
 - (d) Of the joints
- ix. How many bones are there in the average person's body?
 - (a) 206
 - (b) 106
 - (c) 306
 - (d) It varies by individual.
- x. The only movable bone of the skull is
 - (a) Maxilla
 - (b) Mandible
 - (c) Temporal bone
 - (d) Frontal bone.
- xi. Which of the following blood cells play an important role in blood clotting?
 - (a) Leucocytes
 - (b) Neutrophils
 - (c) Thrombocytes
 - (d) Erythrocytes

- xii. Haemopoiesis is a process of the production of
 (a) Blood plasma (b) Haemoglobin (c) Bone marrow (d) Erythrocytes
- xiii. The joint elbow is an example of
 (a) Hinge joint (b) Ball and socket joint (c) Pivot joint (d) Gliding joint
- xiv. The lymphatic system consists all of the following except:
 (a) Lymph nodes (b) Blood (c) Lymphatic vessels (d) Lymph
- xv. Which of the following structure at a synapse has the neurotransmitter?
 (a) Schwan cells (b) Synaptic cleft (c) Synaptic vesicles (d) Synaptic knobs
- xvi. The unit of Nervous system is
 (a) Brain (b) Spinal Cord (c) Nerves (d) Neuron
- xvii. The eye lens is
 (a) Biconvex (b) Convex (c) Biconcave (d) Concave
- xviii. The border between the middle and inner ear is formed by
 (a) Incus (b) Oval window (c) Pinnae (d) Tympanic membrane
- xix. The cardiac muscle of the heart is the
 (a) Pericardium (b) Epicardium (c) Myocardium (d) Endocardium
- xx. The duration of cardiac cycle is
 (a) 0.3 sec (b) 0.5 sec (c) 0.4 sec (d) 0.8 sec

Section II

2. Short Answer type questions. Answer any five. 5x7=35

- a. Explain the concept of molecules transport across cell membrane.
- b. Describe the functions of bones.
- c. Write a note on physiology of muscle contraction.
- d. Give the structure and functions of skin.
- e. Explain about the composition and functions of blood.
- f. Explain the importance of Rh factor and its significance.
- g. Classify Tissues with suitable examples.

Section III

Long Answer type questions. Answer any two. 2x10= 20

3. Define Cell and describe each cellular organelles and its Functions in details.
4. Draw a neat and well labeled diagram of Heart. Explain Cardiac cycle in detail.
5. Explain and draw the structure of Eye and discuss physiology of vision.
