



Roll No.....

SCHOOL OF UNANI MEDICAL EDUCATION & RESEARCH

Annual Examination of BUMS First Prof. 2024 (Batch: 2022-2023)(Senior Batch)

Paper Code: UNIUG-MZ-Paper I: MANAFEUL AZA (HUMAN PHYSIOLOGY)

Note: Attempt all the questions in continuation.

Time: 3 Hour

Max. Marks: 100

Section A (Multiple Choice Questions)

[20x1=20]

This part contains **twenty** questions. Each question carries **one** mark.

1. Which of the following statements regarding exocytosis is correct?
 - a) Is always employed by cells for the secretion
 - b) Takes up large molecules from the extracellular space
 - c) Allows the retrieval of elements of the cell membrane
 - d) Is used to deliver material to the extracellular space
2. The term Homeostasis was first introduced by _____.
 - a) Walter Bradford Cannon
 - b) Watson and Crick
 - c) Johanson Brown
 - d) Issac Newton
3. Information is coded in the form of fast-moving impulses in which types of cells?
 - a) Epithelial
 - b) Endothelial
 - c) Neurons
 - d) Hepatocytes
4. The functional unit of the contractile system in striated muscle is
 - a) Myofibril
 - b) Cross bridges
 - c) Z bands
 - d) Sarcomere
5. Macromolecules are described as large molecules built up from repeating units called which of the following?
 - a) Biopolymer
 - b) Dimers
 - c) Monomers
 - d) Metamers
6. Largest cell in human body is.....
 - a) Muscle cell
 - b) Nerve cell
 - c) Glial cell
 - d) Goblet cell
7. If the CO_2 and HCO_3^- caused the imbalance, it is what?
 - a) Metabolic
 - b) Respiratory
 - c) Combined
 - d) None
8. A solution that is lower in the osmolality of the plasma that will cause a cell to swell is called:
 - a) Hypotonic
 - b) Normal saline
 - c) Isotonic
 - d) Hypertonic
9. Which of the following is NOT the function of the plasma membrane?
 - a) Intercellular interactions
 - b) Responding to external stimuli
 - c) Energy transduction
 - d) Assisting in chromosome segregation
10. Name the tissues that are involved in the formation of membranes.
 - a) Epithelial tissue
 - b) Nervous tissue
 - c) Muscular tissue
 - d) Connective tissue
11. Which of the following cells of connective tissue secrete antibodies?
 - a) Mast cells
 - b) Reticular cells
 - c) Adipose cells
 - d) Plasma cells
12. Histocyte is a connective tissue cell, the function of which is
 - a) Phagocytic
 - b) Secretion
 - c) Filtration
 - d) Fiber production

13. Which leucocyte releases heparin and histamine in blood?
 a) Neutrophil
 b) Basophil
 c) Eosinophil
 d) Monocyte
14. In patients with sickle cell disease, sickling of RBC is favorable when hemoglobin S is ____?
 a) Oxygenated form
 b) Deoxygenated form
 c) Glycated form
 d) All of the above
15. State the following statement about monocyte is True or False:
 "Phagocytosis occurs after they transformed into wandering macrophages".
 a) True
 b) False
16. Which blood type can be transfused to an individual whose blood type is unknown?
 a) AB negative
 b) AB positive
 c) O negative
 d) O positive
17. Which of the following organelle is absent in neuron?
 a) Mitochondria
 b) Centrioles
 c) Nissel granules
 d) Ribosomes
18. Coagulation factors I through IV are respectively:
 a) Calcium, fibrinogen, prothrombin, and Christmas.
 b) Fibrinogen, prothrombin, thromboplastin, and calcium
 c) Prothrombin, calcium, fibrinogen, and, thromboplastin.
 d) Thromboplastin, prothrombin, calcium, and fibrinogen
19. Uninucleate muscles are:
 a) Smooth muscles
 b) Skeletal muscles
 c) Voluntary muscles
 d) None of these
20. Intercalated discs are present in
 a) Cardiac muscles
 b) Skeletal muscles
 c) Nonstriated muscles
 d) Ligament

Section -B: Short Answer Questions (SAQ)

This part contains Eight questions. Each question carries **five** marks.

[8x5=40]

1. Write down classification of Vitamin and describe functions of vitamin A.
2. What are plasma proteins? Write their functions.
3. Explain active transport and its types.
4. Write a note on the structure and functions of platelets.
5. Explain how the acid-base balance is maintained in the body.
6. Write a note on blood groups.
7. What are the normal heart sounds?
8. Write down the classification of epithelial tissue and its general features.

Section -C: Long Answer Questions (LAQ)

This part contains Four questions. Each question carries **Ten** marks.

[4x10=40]

1. Define blood pressure and write the mechanism controlling blood pressure.
2. Write a note on special junctional tissues of the heart.
3. What is a gland? Write its histological classification with examples.
4. Write down importance of homeostasis and explain one negative and one positive feedback mechanism in detail.
