2024/11

SET A

B. PHARM.
FIRST SEMESTER
HUMAN ANATOMY & PHYSIOLOGY
BP101T [REPEAT]

[USE OMR FOR OBJECTIVE PART]

Duration : 3 hrs. **Full Marks : 75**

PART-A: Objective

Time : 30 min. **Marks : 20**

Choose the correct answer from the following: ***1×20=20***

1. The main function of rods in the eyes
   a. Vision in dim light
   b. Depth perception
   c. Color vision
   d. Accommodation for near vision

2. The blood group which is known as universal recipient blood type
   a. AB negative
   b. O negative
   c. AB positive
   d. O positive

3. What is the best definition of equilibrium?
   a. Slightly higher concentration outside the cell compared to the inside of the cell.
   b. Equal concentrations of a substance inside and outside of the cell.
   c. Equal amounts of a cell in different parts of an organism.
   d. Slightly lower concentration inside the cell compared to the outside of the cell

4. In muscle contraction, this ion is essential
   a. Cl^-
   b. K^+
   c. Ca^{2+}
   d. Na^+

5. Which of the following joint does not allow any movement?
   a. Synovial joint
   b. Ball and Socket joint
   c. Fibrous joint
   d. Cartilaginous joint

6. Lymphocytes are of two types, they are
   a. T-cells and erythrocytes
   b. T-cells and Platelets
   c. Erythrocytes and Platelets
   d. T-cells and B-cells

7. Each hemoglobin molecules can carry _____ no of oxygen molecule
   a. 4
   b. 2
   c. 6
   d. 5

8. SA node is located in _____
   a. Upper lateral wall of right atrium
   b. Lower lateral wall of right atrium
   c. Lower lateral wall of left atrium
   d. Upper lateral wall of left atrium

9. The only movable bone present in the skull is
   a. Ethmoid bone
   b. Nasal bone
   c. Mandible bone
   d. maxilla

10. The synaptic vesicles discharge the neurotransmitter at the neuromuscular junction is
    a. Adrenaline
    b. Acetylcholine
    c. Epinephrine
    d. None of the above

11. The following bone is not a part of the skull
    a. Hyoid bone
    b. Occipital bone
    c. Ethmoid bone
    d. Temporal bone

12. The passage of solute across across a selectively permeable membrane from an area of higher to lower solute concentration is
    a. Osmosis
    b. Active transport
    c. Diffusion
    d. Vesicular transport

13. Find the correct statement about the Eustachian tube
    a. Connects internal ear to external ear
    b. Connects middle ear to pharynx
    c. It equalises pressure between middle ear and outer atmosphere
    d. Both b and c

14. Which papillae of the tongue do not have taste buds?
    a. Foliate papillae
    b. Fungiform papillae
    c. Filiform papillae
    d. Vallate papillae

15. The cranial nerve that regulates the heartbeat
    a. VII (facial)
    b. X (vagus)
    c. IX (glossopharyngeal)
    d. VIII (vestibulocochlear)

16. All of the following sinuses belong to paranasal sinuses except
    a. Maxillary
    b. Ethmoid
    c. Sphenoid
    d. Mastoid

17. Blood vessel that carry blood towards the heart is called
    a. Arteries
    b. Capillaries
    c. Veins
    d. All of the above

18. The bicuspid valve is present in between
    a. Left atrium and left ventricle
    b. Left ventricle and aorta
    c. Right atrium and right ventricle
    d. Right ventricle and pulmonary trunk

19. Endocrine messengers are also called _____
    a. Hormones
    b. Receptors
    c. Antibody
    d. Antigen

20. Skeletal muscle is also called
    a. Involuntary muscle
    b. Cardiac muscle
    c. Striated muscle
    d. All of the above

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PART-B: Descriptive

Time : 2 hrs. 30 min. **Marks : 35**

[Answer any seven (7) questions]

1.	Write the anatomy of skin.	5
2.	How many types of blood vessels present in human body? Write the structure and functions of artery, vein and capillary.	5
3.	Write the structural and functional classification of joints.	5
4.	Describe each cranial nerves along with its function.	5
5.	Write a note on cell junction.	5
6.	Write the classification, location and functions of connective tissue.	5
7.	Write a short note on Lymphatic system.	5
8.	Write the anatomy of Ear.	5
9.	Explain Neuromuscular junction with schematic diagram.	5

PART-C : Long type questions

[Answer any two (2) questions]

1. Name the bones of Axial and Appendicular skeleton along with the number. **10**

2. Write the anatomy of heart. Enumerate the systemic circulation. **10**

3. What is blood? Describe each composition of blood. **10**

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