RI V-01 BPH/95/32/37 2023/12

Marks: 20

1×20=20

SET

#### B. PHARM. FIRST SEMESTER **HUMAN ANATOMY & PHYSIOLOGY** BP101T [USE OMR FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 75

PART-A: Objective

Time: 30 min.

Choose the correct answer from the following:

- 1. Joint between bones in the form of sutures of human skull is
  - a. Hinge joint

b. Cartilaginous joint

c. Synovial joint

- d. Fibrous joint
- The muscular layer of the heart that is responsible for pumping is
  - a. Endocardium

b. Myocardium

c. Epicardium

- d. Mucous membrane
- The formation of erythrocyte in foetus takes place in
  - a. Red bone marrow

b. Liver and spleen

c. Sarcoplasm

d. blood

- Endocytosis is
  - a. A process by which cells release molecules to the outside environment
  - c. A process by which cells take in molecules from the outside environment
- b. A process by which cells create new molecules
- d. All of the above
- At the Neuromuscular junction, the post synaptic bulb discharges
  - a. Adrenaline

b. Acetylcholine

- c. Epinephrine
  - d. None of the above
- Number of bones in human appendicular skeleton is
  - a. 80

b. 126

c. 120

d. 206

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- Which of the following has the thickest wall
  - a. Left ventricle

b. Right atrium

c. Right ventricle

- d. Left atrium
- Which statement regarding the Desmosome and Hemidesmosome is correct
  - a. Transmembrane glycoproteins in Hemidesmosome are integrins unlike the cadherins in Desmosome
- b. As like Desmosome, Hemidesmosome also link to adjacent cell
- c. Both Desmosome and
- d. Both a and b
- Hemidesmosome are exactly same

9.	What is the main function of rods in the eye a. Depth perception c. Vision in dim light	b. Color vision d. Accommodation for near vision
10.	The lymphatic system consists of all the fol a. Lymph c. Lymph node	lowing except b. Blood d. Lymphatic vessel
11.	In the skeletal muscles, the functional unit of a. Z band c. Cross bridges	of contractile system is b. Myofibril d. Sarcomere
12.	The passage of solvent across a selectively phigher to lower solvent concentration is a. Osmosis c. Active transport	bermeable membrane from an area of  b. Diffusion d. Facilitated diffusion
13.		lecules of iron b. 2 d. 5
14.	The name of most numerous, large, flat cell connective tissue is  a. Fibroblast  c. Adipocyte	b. Plasma cell d. Mast cell
15.	Which of the following nerve transmits sensemell  a. Optic nerve	sory information to the brain regarding  b. Olfactory nerve
,	c. Trigeminal nerve	d. Oculomotor nerve
16.	Which is not the characteristic of skeletal m <ul><li>a. Multinucleated in nature</li><li>c. Involuntary in nature</li></ul>	uscle b. Presence of striations d. Helps in movement of skeleton
17.	The reason why the Sino Atrial node is the a. Only part of the conducting system generating impulse	<ul> <li>Generates the highest number of action potentials in the conducting system</li> </ul>
18	c. Located in the right atrium  Find the correct statement about the Eustac	d. None of the above
	a. Connects internal ear to external ear c. It equalises pressure between middle ear and outer atmosphere	
19.	Haemopoeisis means formation of a. Erythrocyte c. Leukocyte	b. Platelet d. All of the above

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### 20. In human cell, which organelle stores Ca2+

a. Mitochondria

b. Nucleus

c. Sarcoplasmic reticulum

d. Golgi complex

# PART-B: Descriptive

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lin	ne: 2 hrs. 30 min.	Marks: 3.
	[ Answer any seven (7) questions ]	
1.	Write the structure and functions of skin?	:
2.	Name the three major types of blood vessels and write the structure and functions of blood vessel?	5
3,	Write the structural and functional classification of joints.	5
4.	Write a note on spinal nerves.	5
5.	Explain the structure, function and location of epithelial tissue.	5
6.	Describe the basic life processes.	.5
7.	Write a short note on Lymphatic system.	5
8.	Write the anatomy and diseases of eye.	5
9.	Name the bones of Axial and Appendicular skeleton.	5

## [PART-C: Long type questions]

### [ Answer any two (2) questions ]

1.	Explain the mechanism of blood coagulation.	10
2.	Describe the anatomy of heart. Enumerate the pulmonary circulation.	10
3.	What is blood? Describe its composition.	10