





## **BRAINWARE UNIVERSITY**

## Term End Examination 2022 Programme – B.Pharm-2018/B.Pharm-2019/B.Pharm-2020/B.Pharm-2022 Course Name – Human Anatomy and Physiology I Course Code - BP101T ( Semester I )

Full Marks : 75 Time : 3:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

## Group-A

(Multiple Choice Type Question)

1 x 20=20

- 1. Choose the correct alternative from the following:
  - (i) Cell is discovered by
    - a) Robert Brown

b) Robert Hooke

c) John Mendal

- d) Charse Darwin
- (ii) Name the outer most boundary of nucleus?
  - a) Plasma membrane

b) Cytoplasm

c) Nuclear membrane

- d) None of the each
- (iii) Choose the correct answer: The cells producing the pigment responsible for skin color are
  - a) Keratinocytes

b) Melanocytes

c) Adipocytes

- d) Merkel cells
- (iv) Select the correct answer
  - a) Autophagy is the property of lysosome
- 00
- b) Autophagy is the property of golgi bodies
- c) Rough endoplasmic reticulum contain nucleus
- d) All of the above
- (v) Identify the correct answer: Examples of intercellular material surrounding connective tissue cells is
  - a) Ground substance

b) Matrix

c) Adipose

- d) Bone
- (vi) Choose correct answer: The longest bone in the human body:
  - a) Stapes

b) Humerus

c) Ulna

- d) Femur
- (vii) The purpose of the rib cage is to:
  - a) Protect the stomach

- b) Protect the spinal cord
- c) Protect the heart and lungs
- d) provide an object to which the lungs can attach
- (viii) The power house of cell is called:
  - a) Cell wall

b) Mitochondria

c) Ribosomes

d) Nucleus

(ix) The functional unit of life is called		
a) Cell     c) Nucleus     (x) Choose the correct answer: The cell responsible correct answer.	b) Egg d) None of these	
a) Fibroblast c) Osteoblast (xi) Choose the correct answer: The sweat and oil	b) Chondroblast d) Megablast	
a) Outer layer of epidermis c) Both the epidermis & the dermis (xii) Identify the correct answer: Example of inactive.	b) Inner layer of epidermis d) Dermis ve lysosome is	
a) Secondary lysosome     c) Primary lysosome (xiii) Tissue is a	b) Phagolysosome d) All of the above	
a) Group of organs     c) Group of tissues (xiv) Name the outer most boundary of cell?	b) Group of cells d) Group of organisms	
a) Plasma membrane     c) Nuclear membrane     (xv) Choose the correct answer: What is the function	b) Cytoplasm d) None of the each on of a tendon?	
a) To link bones to bones c) To link muscles to ligaments	<ul><li>b) To link muscles to bones</li><li>d) To bind the cells in compact bone closer together</li></ul>	
(xvi) Choose the correct answer: The cells producir are		
a) Keratinocytes     c) Adipocytes (xvii) Name an Organelle which serves as a primary be distributed throughout the cell?	b) Melanocytes d) Merkel cells packaging area for molecules that will	
a) Mitochondria     c) Golgi apparatus (xviii) Select the correct answer	b) Plastids d) Vacuole	
a) Nucleolus contain genetic materials     c) Cell wall present in human cell (xix) Choose the correct answer: the function of a	b) Translation occur inside nucleus d) All of the above tendon is	
a) To link bones to bones	b) To link muscles to bones	
c) To link muscles to ligaments	<ul> <li>d) To bind the cells in compact bone closer together</li> </ul>	
(xx) Select the correct answer: Function of golgi ap		
a) Lipid synthesis     c) Processing proteins	<ul><li>b) Processing carbohydrates</li><li>d) oxidation</li></ul>	
Grou	1.00	25
(Short Answer T	ype Questions) 5 x /=	-35
Briefly describe function of ribosome.	(5)	
Describe endocytosis process.  3. Describe active diffusion.	(5) (5)	
0	The state of the s	
Explain briefly the transportation process within a 4. Briefly describe the process of formation of second O	ndary lysosome. (5)	
Explain the structure and function of cell wall.  5. Explain the structure and function of intermediat	e filaments. (5)	

	OR	
	Explain the structure of nucleus.	(5)
6.	Explain the function of mitochondria.	(5)
	OR	V
	Illustrate the structure of mitochondria with diagram.	(5)
	Explain neurohumoral transmission with a label diagram.	(5)
	OR	127
	Explain the structure and function of GABA receptor.	(5)
	Summarize the functioning of cardiovascular system with a proper diagram of heart.  OR	(5)
	Na+/K+ channel has important role in action potential - just fy.	(5)
	Group-C	
	(Long Answer Type Questions)	10 x 2=20
9.	Explain the process of transportation within cell.	(10)
	OR	()
	Explain the process of phagocytosis.	(10)
10	. Evaluate the action of the " suicidal bag".	(10)
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(10)

Centrioles formed spindle fibers during cell division. - justify