



BRAINWARE UNIVERSITY

Term End Examination 2022 Programme – B.Optometry-2022 Course Name – General Human Physiology Course Code - BOPTOC102 (Semester I)

Full Marks : 60 Time : 2:30 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 15=15

- 1. Choose the correct alternative from the following:
- (i) Choose which is called secondary pacemaker of Heart?

a) SA node

b) AV node

c) Purkinje fiber

- d) Bundle of His
- (ii) Choose the correct statement for Heart
 - a) The left atrial wall is about three times thicker than the right atrial wall.
 - c) Systolic contraction normally begins in the left atrium
- b) Excitation spreads directly from atrial muscle cells to ventricular muscle cells.
- d) The contracting ventricles shorten from apex to base.
- (iii) Define Urea synthesis takes place in liver because
 - a) Enzyme arginase is present in liver only
- b) Kidney is smaller than liver

c) ADH is found in liver

- d) Urea is present only in liver
- (iv) State in mammal the formation of Urea takes place by the process of

a) Lactic acid cycle

b) Cori cycle

c) Ornithine cycle

- d) Kreb's cycle
- (v) Define the effect of antidiuretic hormone (ADH) on the kidney is to:
 - a) Proximal tubule, cotransport
- b) Distal tubule, passive transport

c) Proximal tubule, osmosis

- d) Distal tubule, active transport
- (vi) Define the term cell was given by
 - a) Robert Hooke

b) Tatum

c) Schwann

d) De Bary

- (vii) Identify the perichondrium
 - a) Yellow elastic connective tissue
- b) Loose areolar connective tissue
- c) Reticular connective tissue
- d) Irregular white fibrous connective tissue
- (viii) Define the hormone dehydroepiandrosterone sulfate (DHEAS) is synthesized in the
 - a) Ovary

b) Testicle

c) Adrenal gland

- d) Pituitary gland
- (ix) Vital stain is used to detect the following cell, choose
 - a) Plasma cell

b) Reticular cell

(x)	c) Macrophage cell d) Mast cells State the connective tissue that connects muscle to bone is called		
(^,	a) Ligament	b) Tendon	
	c) Nervous tissue	d) All of the above	
(xi	Select Cartilage and bone are types of		
	a) Muscular tissue	b) Connective tissue	
	c) Meristematic tissue	d) Epithelial tissue	
(xii	State Haversian canals occur in		
	a) Pubis	b) Clavicle	
/::	c) Scapula	d) Humerus	
(XII) Choose the term refers to poor adults	roduction of blood cells in the	
	a) Hemolysis; spleen	b) Hemostasis; liver	
, .	c) Homeostasis; bone marrow	d) Hematopoiesis; bone marrow	
(xiv) Choose who discovered blood groups?		
	a) Thomas Cooley	b) Karl Landsteiner	
1,0,0	c) Camillo Golgi	d) Ernst Haecker	
(xv) Describe the Portal system is present between	17-	
	a) Two veinsc) Vein and artery	b) Two arteriesd) Two capillary plexus	
	c) veni and artery	u) Two capillary piexus	
	Grou	р-В	
(Short Answer Type Questions)			3 x 5=15
2 6	xplain Phagocytosis and Pinocytosis		(3)
3. Describe the role of intercostal muscles and diaphragm in process of respiration			(3)
4. Distinguish Asthma and COPD.			(3)
5. Develop an idea about Lung function test?			(3)
6. Establish the Protein digestion takes place in stomach.			(3)
OR			(=)
ı	dentify the role of FSH and LH in Ovulation.		(3)
	Grou	n-C	
(Long Answer Type Questions)			5 x 6=30
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7.	State the mechanism of respiration process.		(5)
8.	Describe the mechanism of urine formation.		(5)
	Describe the EM structure of plasma membrane	_	(5)
	O. Describe the basic structural properties of systemic circulation.		
	11. Discuss the process of Carbohydrate digestion in elementary canal.		
12.	12. Describe the role of hormones in regulation of menstrual cycle. (5)		
OR Discuss how O2 gas transports from lungs to tissue in our body with suitable diagram. (5)			
		•	(5)
		•	(5)
