



BRAINWARE UNIVERSITY

Term End Examination 2022

Programme – B.Optometry-2019/B.Optometry-2020/B.Sc.(PA)-2020/B.Optometry-2021/B.Sc.(PA)-2021

Course Name – Human Physiology Course Code - BOPTO102/BPA102 (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

1 x 15=15

1.	(Multiple Choice Choose the correct alternative from the following	**	1 x 1
(i)	Identify the perichondrium		
	a) Yellow elastic connective tissue c) Reticular connective tissue Explain articular surface of joints	b) Loose areolar connective tissue d) Irregular white fibrous connective	tissue
(iii)	a) Is formed of hyaline cartilagec) Is rich in collagen type IExplain characteristic of Multilocular fat cells	b) Is rich in elastic fibersd) Gets its nutrition from periosteum	
(iv)	a) They have signet ring appearancec) They are heat insulatorVital stain is used to detect the following cell, or	b) Affected by starvationd) Abundant mitochondriahoose	
(v)	a) Plasma cellc) Macrophage cellState the connective tissue that connects musc	b) Reticular cell d) Mast cells le to bone is called	
(vi)	a) Ligamentc) Nervous tissueSelect Cartilage and bone are types of	b) Tendon d) All of the above	
(vii)	a) Muscular tissuec) Meristematic tissueState Haversian canals occur in	b) Connective tissue d) Epithelial tissue	
(viii)	a) Pubis c) Scapula Choose the term refers to p of adults	b) Clavicle d) Humerus roduction of blood cells in the	_
(ix)	a) Hemolysis; spleen c) Homeostasis; bone marrow State during platelet plug formation	b) Hemostasis; liver d) Hematopoiesis; bone marrow and are released, causing	

more platelets to stick to the platelet plug.

a) Prostacyclin; nitric oxidec) ADP; thromboxane(x) State serum	b) Heparin; plasmind) GTP; nitric oxide	
 a) Whole blood sample from which all cells are removed. c) The portion of the blood that is composed of red blood cells. (xi) Identifyt the percentage of water in plasma is a 	 b) Plasma from which fibrinogen and of factors are removed. d) Plasma from which only albumin are globulins are removed. 	_
a) 80-82% c) 50-52% (xii) Choose the rarest blood group	b) 90-92% d) 60-62%	
a) AB negativec) O negative(xiii) State which leucocytes release heparin and his	b) AB positive d) O positive tamine in blood?	
a) Neutrophilc) Eosinophil(xiv) Describe the Portal system is present between	b) Basophil d) Monocytes	
a) Two veinsc) Vein and artery(xv) Choose which is called secondary pacemaker of	b) Two arteries d) Two capillary plexus f Heart?	
a) SA node c) Purkinje fiber	b) AV node d) Bundle of His	
Gro u (Short Answer T	-	3 x 5=15
 Define Plasmodesmata and its function Identify the role of FSH and LH in Ovulation. Develop the concept on Hypoxia? Mention the types. Develop an idea about Lung function test Distinguish Asthma and COPD. OR Differentiate between Type I and II Diabetes Mellitus		
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