



BRAINWARE UNIVERSITY

Term End Examination 2023-2024 Programme – B.Optometry-2023 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 fo	ollowing:	
(i)	A microscopic gap between a pair of adjacent neurons over which nerve impulses pass when going from one neuron to the next is defined as:		
	a) Neurotransmitter	b) Axon	
	c) Both 1 or 4	d) Synapse	
(ii)	In our body involuntary actions are controlled by Select the correct option.		
	a) Medulla in Forebrain	b) Medulla in Hindbrain	
	c) Medulla in Midbrain	d) Medulla in Spinal Cord	
(iii)	Choose which is called secondary pacem	aker of Heart?	
•	a) SA node	b) AV node	
	c) Purkinje fiber	d) Bundle of His	
(iv)	Identify the Process by Which White Blood Cells Engulf and Destroy Bacteria:		
	a) Hemostasis	b) Erythropoiesis	
	c) Phagocytosis	d) Hemolysis	
(v)			
	a) Epithalamus	b) Limbic system	
	c) Broca's area	·	
(vi)	Name the structure formed when a sperm cell successfully fuses with an egg cell.		
	a) Zygote	b) blastocyst	
	c) embryo	d) Fetus	
(vii	Write the name of the semi-liquid mass of partially digested food in the stomach.		

(viii) Predict the part of the digestive system is primarily responsible for water and

a) Bolus

c) Mucus

electrolyte absorption.

a) Large Intestinec) Stomach

b) Chyme

d) None of these

b) Esophagus

d) Pancreas

(ix) State Oxygen is carried by	14.7		
a) Platelets	b) Leucocytes		
c) Erythrocytes	d) Monocytes		
(x) Select the hormone that play	ys a major role in labour contractions		
	b) Adrenalin		
a) Oxytocin	d) Melatonin		
c) Melanin	d in the body\'s sleep-wake cycle and circadian rhythn	n.	
a) Melatonin	b) Serotonin		
c) Dopamine	d) Endorphins		
(xii) The outer covering of lung is			
a) Bronchi	b) Alveoli		
c) Glottis	d) Pleura	£	
	ne \"master gland\" because it regulates the function o	r	
other endocrine glands.	MORPOTTAL PARK TO THE PARK TO		
a) Thyroid gland	b) Adrenal gland		
c) Pancreas	d) Pituitary gland		
(xiv) Recall the correct statement	about function of platelets:		
a) Carries Oxygen	b) Helps in Blood Clotting		
c) Produce antibodies	d) Carries Nutrients		
(xv) Name the part of the renal t	ubule is responsible for fine-tuning the concentration of	of	
urine by reabsorbing water a	and ions.		
a) PCT	b) DCT		
c) Loop of Henlee	d) collecting duct		
c) Loop of Hemee	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Group-B		
	(Short Answer Type Questions)	3 x 5=15	
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2. Eurlain - humathalamus asts as	a thermostat for hody temperature regulation.	(3)	
2. Explain: hypothalamus acts as a thermostat for body temperature regulation.3. Explain Phagocytosis and Pinocytosis			
4. State the principle behind the	ARO blood typing system	(3) (3)	
5. Explain the term ovulation	ADO BIOOG LYPING SYSTEM	(3)	
6. Differentiate between Type I ar	nd II Diabetes Mellitus	(3)	
6. Differentiate between Type Fu.	OR STATE OR		
Differentiate between Vital cap	acity and Timed vital capacity	(3)	
Differentiate between the sep			
	Group-C		
Y VE TWO	(Long Answer Type Questions)	5 x 6=30	
	tools it was 10		
7. Describe the different types o	f cellular transport mechanism	(5)	
- · · · · · · · · f O2 +	sport in the bloodstream	(5)	
8. Explain the process of O2 train	turition	(5)	
 Explain the mechanism of micturition . Summarise the mechanical event of cardiac cycle with proper diagram 			
11. Discuss the meachanism of blood coagulation			
11. Discuss the meachanism of blood coagulation 12. Propose the mechanism of role of Insulin and glucagon in glucose homeostasis			
12. Propose the mechanism of for	OR		
Compile the short term regula	1.36%	(5)	
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