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## **BRAINWARE UNIVERSITY**

## Term End Examination 2024-2025 Programme – B.Optometry-2022/B.Optometry-2023/B.Optometry-2024 Course Name – General Human Physiology Course Code - BOPTOC102 ( Semester I )

	Marks: 60 ne figure in the margin indica	ates full marks. Candidates are required to give t own words as far as practicable.]	Time: 2:30 Hours heir answers in their
		Group-A	
1.	Choose the correct alternati	(Multiple Choice Type Question) ve from the following:	1 x 15=15
(i)	Choose the normal pH of bl	lood out of following options?	
(ii)	a) 2.2 c) 7.4 Fill in the blank by choosing reported to have	b) 5.2 d) 10.4 g the correct option. Peripheral nervous system o pairs of spinal nerves.	of human is
(iii)	a) 21 c) 31	b) 11 d) 12 ces insulin and glucagon hormones:	
	a) Thyroid c) Pancreas	b) Pituitary d) Pineal e that separates the chest cavity from the abdom	ninal cavity
(v)	<ul><li>a) Diaphragm.</li><li>c) Bronchi.</li><li>Choose the hormone that i.</li></ul>	d) Pharynx. s produced by the ovaries and is responsible for the condary sexual characteristics.	
(vi)	a) Testosterone c) Estrogen	b) Progesterone d) Androgens released during childbirth and helps with uterine	James Jr.
(vii)	a) Oxytocin c) Aldosterone	b) Thyroxine	
	a) Uterus c) Fallopian tubes	b) Cervix d) Ovaries	

LIBRARY (viii) Name the process in which the fertilized egg attaches to the uterine lining. Brainware University Barasat, Kolkata -700125 a) implantation b) Ovulation c) Fertilization d) Menstruation (ix) Identify the correct function of the esophagus in the digestive process. b) Breaking down food with enzymes a) Absorption of nutrients d) Transporting food from the mouth to the c) Mixing food with stomach acid stomach (x) Predict the type of tissue that provides support and structure to the body. a) Epithelial tissue b) Connective tissue c) Muscle tissue d) Nervous tissue (xi) Choose the name of the movement of molecules against their concentration gradient with the expenditure of energy a) Osmosis b) Passive transport c) Diffusion d) Active transport (xii) Identify the layer of the GI tract is responsible for mechanical digestion and movement of food. a) Mucosa b) Submucosa c) Muscularis externa d) Serosa (xiii) Identify the hormone responsible for regulating the body's response to stress a) Insulin b) Glucagon d) Parathyroid hormone (PTH) c) Cortisol (xiv) Name the gland known as the "master gland" because it regulates the function of other endocrine glands. a) Thyroid gland b) Adrenal gland d) Pituitary gland c) Pancreas (xv) Select the correct location of Meissner's plexus b) Muscularis externa layer of the GIT. a) Submucosa layer of the GIT. d) Serosa layer of the GIT. c) Mucosa layer of the GIT. Group-B 3 x 5=15 (Short Answer Type Questions) 2. Define anemia. (3) 3. Describe the function of Plasma membrane. (3) (3)4. Discuss the functions of Liver. 5. Describe positive and negative feedback regulations. (3) 6. Distinguish Asthma and COPD. Differentiate between Type I and II Diabetes Mellitus (3)**Group-C** (Long Answer Type Questions) 5 x 6=30 7. Explain the process of CO2 transport from tissue to lung. (5) 8. Describe the functions of the skin. (5) 9. Describe the Graves disease. (5) 10. Compile the short term regulation mechanisms of BP. (5) 11. Describe the spermatogenesis process. (5) 12. Draw and label the cross sectional view of heart. (5)

(5)

Summarize the steps of erythropoiesis process.