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SARDAR PATEL UNIVERSITY

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[61]

S.Y.B.Sc (THIRD SEMESTER) EXAMINATION.

SATURDAY, 18/6/2022

TIME:12:00 p.m. — 2:00 p.m.



US03CZOO 02 ,( PHYSIOLOGY & ADAPTATION)

TOTAL MARKS :70

Q-1	CHOOSE CORRECT ANSWER :	10
1	Which of the following has the thickest wall in heart ? a. Left ventricle b. Right atrium c. Right ventricle. d. Left atrium.	
2	Role of pace maker is to : a. Initiate wave of contraction in heart b. Increases heart beat. c. Regulate blood supply to heart d. Decreases heart beat.	
3	During inspiration the diaphragm : a. contracts and flattens. b. Relaxes to become dome shaped. c. Expands. d. Show no change.	
4	Exchange of oxygen and carbon dioxide at the respiratory surface occurs through _____ : a.Active transport b.Passive transport c.Osmosis d.Diffusion	
5	The infective stage of Entamoeba histolytica is _____. a. Binucleate form. b. Sporozoite form. c. Minuta form. d. Tetranucleate form.	
6	Hypertension may damage : a. Kidney. b. Brain. c. Heart. d. All of these.	
7	Exocoetus is an example of _____ adaptation. a. Arboreal. b. Fossoreal. c. Primary aquatic d. Secondary aquatic.	
8	Bat is adapted for ----- a. Active flight. b. Passive flight. c. Both a and b. d. None.	
9	Blood vessels supplying oxygenated blood to brain is ----- a. Carotid artery. b. Coronary artery c. Pulmonary artery d. Phrenic artery	
10	Scansorial adaptation means animal adapted for _____. a. Burrowing. b. Tree living. c. Fast running d. none of these.	

Q-2	1	Outer covering of heart is called as _____.	08
	2	Chloride shift is required for transportation of _____.	
	3	Trypanosoma causes _____.	
	4	Earthworm shows _____ adaptation.	
	5	Ampular heart present in Insects and Cephalopods.- TRUE or FALSE ?	
	6	Epiglottis prevents food from entering the Larynx. TRUE or FALSE ?	
	7	Scientific name of Hookworm is Ancylostoma. TRUE or FALSE ?	
	8	Draco is exemple of Volant adaptation. TRUE or FALSE ?	
Q-3	<b>ANSWER IN SHORT : (ANY TEN )</b>		20
	1	What are the blood pumps?	
	2	Give the name of events occur during one complete cardiac cycle.	
	3	Which factors regulates the process of genesis of red blood cells ?	
	4	What is tidal volume?	
	5	Write about larynx.	
	6	Write about symptoms of influenza.	
	7	Explain –systolic and diastolic blood pressure.	
	8	Write about sickle cell anemia.	
	9	Draw neat and labelled diagram of trophic form of Entamoeba histolytica.	
	10	What is syndactyli ?	
	11	What are the electric organs?	
	12	Write about significance of feathers in Volant adaptation.	
Q-4	<b>ATTEMPT ANY FOUR.</b>		32
	1	Describe : Types of anticoagulants.	
	2	Describe :Cardiac cycle	
	3	Transportation of respiratory gases.	
	4	Describe in brief : Any two disorder of respiratory system.	
	5	Write about Anemia.	
	6	Describe about Dracunculus medinensis.	
	7	Explain : Camouflage giving examples.	
	8	Write a note on Mimicry.	

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