

বিদ্যাসাগর বিশ্ববিদ্যালয় VIDYASAGAR UNIVERSITY

Question Paper

B.SC. Honours Examinations 2022

(Under CBCS Pattern)

Semester - IV[®]

Subject: ZOOLOGY

Paper: C 9-T

(Animal Physiology : Life Sustaining Systems)

Full Marks : 40 Time : 2 Hours

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

1. Answer any <i>four</i> from the following questions :	5×4=20
(a) Write short note on Hamburger Phenomenon.	5
(b) Draw and describe the structure of haemoglobin.	5
(c) Define Osmoregulator and Osmoconformer with suitable example.	21/2+21/2
(d) What is diuretics? State the role of Epinephrine and ANP in blood pressure regulation	
	1+2+2

(e)	Describe the process of Blood Clotting system. 5	
(f)	With suitable diagram, describe the Renin-Angiotensin Aldosterone system. 5	
2. Answer any <i>two</i> from the following questions : $10 \times 2=20$		
(a)	Write the mechanism of HCl secretion in stomach. Write the role of bile in fat digestion. 6+4	
(b)	Write a short note on carbon monoxide poisoning. Describe the mechanism of carbon	
	dioxide transport in blood. 3+(2+5)	
(c)	(c) Define Cardiac output. Briefly describe the origin and conduction of cardiac impulses	
	through conducting myocardial fibers of mammalian heart with diagram. 2+8	
(d)	(d) Differentiate between shievering and non-shievering thermogenesis. Comment on the	
	intrinsic and extrinsic pathway of prothrombin activator formation. Write a note on the	
	mechanism of dilute urine formation. 2+3+5	