



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 4th Semester Examination, 2022

CC9- ZOOLOGY

ANIMAL PHYSIOLOGY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

1. Answer any **five** questions from the following: 1×5 = 5
 - (a) Dissociation of oxyhaemoglobin is promoted by high pH. (State TRUE/FALSE)
 - (b) What is vital capacity?
 - (c) What is osmoconformer?
 - (d) What is the role of gastric lipase?
 - (e) What are Podocytes?
 - (f) Define Heterothermy.
 - (g) What are the groups that are added to H antigen to form A antigen?
 - (h) Mention the location of Mitral valve in human heart.

2. Answer any **three** questions from the following: 5×3 = 15
 - (a) Write a short note on the factors that regulate blood pressure.
 - (b) Describe the process of osmoregulation in fish.
 - (c) Describe the extrinsic pathway of blood clotting.
 - (d) Describe thermoregulation in animals that live in polar region.
 - (e) Describe the mechanism of lipid digestion.

3. Answer any **two** questions from the following: 10×2 = 20
 - (a) Give an account of ABO blood group and Rh factor.
 - (b) What is cardiac cycle? Describe cardiac cycle with the help of suitable diagrams. 2+6+2
What is cardiac output?
 - (c) What are the ways by which carbon dioxide is transported in blood? Comment 4+4+2
on O₂-dissociation curve. What is Haldane effect?
 - (d) Describe the process of counter current mechanism in the formation of 10
hypertonic urine.

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