

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 4th Semester Examination, 2022

ZOOACOR09T-ZOOLOGY (CC9)

Time Allotted: 2 Hours Full Marks: 40 The figures in the margin indicate full marks. Candidates should answer in their own words and adhere to the word limit as practicable. 1. Answer any *eight* questions from the following: $2 \times 8 = 16$ (a) Which part is known as pacemaker and why? (b) Mention two differences between lymphocyte and monocyte. (c) What is Bohr effect? (d) What are polycythemia and erythropaenia? (e) What do you understand by Uricotelism? (f) Distinguish between plasma and serum. (g) Write down two functions of Saliva. (h) What are slenohaline and euryhaline animals? (i) What is the function of buffer solution? (i) Mention the location and function of podocyte. (k) What do you know about HbA and HbF? (1) What is vasa recta? 2. $3 \times 3 = 9$ Answer any *three* questions from the following: (a) Mention the fate of different components of Hb during metabolism. (b) How does Kidney regulate acid-base balance in our body? 1+2(c) What is TMAO? State its role in osmoregulation. (d) Discuss about various forms of CO₂ transport through blood in humans. (e) What is 2, 3 BPG? State its effect on oxygen-haemoglobin dissociation curve. 1+2(f) Mention the composition of gastric juice. State the function of oxyntic glands. 1+1+1Name one carbohydrate digesting enzyme. $5 \times 3 = 15$ 3. Answer any *three* questions from the following:

1+4

2+3

(a) What is renal corpuscle? Draw a labelled diagram of glomerulus.

(b) What is hyperthermia? How does the acclimatization of heat take place?

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- (c) Delineate the formation and function of chylomicrons.
- (d) Name three accessory organs of digestion. Mention the role of bile in digestion.

 $1\frac{1}{2} + 3\frac{1}{2}$

- (e) Elaborate the osmoregulatory process in marine teleost.
- (f) Name different parts of lower respiratory tract. Distinguish between breathing and respiration.

N.B.: Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.



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