

BANKURA UNIVERSITY
Undergraduate End Semester -IV Examination of the A.Y. 2021 - 22
ZOOLOGY

Course ID: 42612

Course Code: SH/ZOOH/402/C-9

Course Title: Animal Physiology: Life Sustaining system

Full Marks: 25

Time: 1Hr 15 min

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

Answer all the questions.

1. Answer any five of the following questions: (1X5=5)

- a. What is the role of isomaltase in carbohydrate digestion?
- b. Mention the role of VWF in platelet plug formation?
- c. What is TFPI?
- d. Define physiological dead space of lung.
- e. What is EFP of glomerulus?
- f. What is heterothermic organism? Give an example.
- g. What is the importance of nodal delay?
- h. Define serous acini?

2. Answer any two of the following questions: (5 X 2=10)

- a) .Briefly describe the process of carbohydrate absorption in human intestine. What is emulsification? 4+1=5
- b. What is oxygen dissociation curve? Define chloride shift? What is Haldane Effect? 2+2+1=5
- c. What is Ultrafiltration? Describe the structure of filtration unit of glomerulus. 1+4=5
- d. What is Einthoven's triangle? Briefly describe the mechanism of inspiration? 2+3=5

3. Answer any one of the following questions: (10X1=10)

- a. Briefly describe cardiac cycle of human heart with suitable schematic representation, mention the times of each phase. What is Coronary circulation? 8+2=10
- b. Describe the mechanism of counter current multiplier system in urine formation. How JGA apparatus regulate GFR and maintain blood pressure by RAAS pathway? 6+4=10
