

**U.G.4<sup>th</sup> Semester Class Test 2023**  
**ZOOLOGY**  
**Raghunathpur College**  
**Course Code: BZOCCHC402**  
**Course Title: Animal Physiology: Life Sustaining Systems**

Full Marks 20

Time 1 hour

*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.*

**1. Answer any five question**

1X 5 = 5

- a) Where does carbon monoxide bind to hemoglobin?
- b) What is the name of the respiratory center in the brain?
- c) What is Payer's patch?
- d) How much oxygen can single hemoglobin bind?
- e) Define poikilotherm
- f) What is gular pouch
- g) What is Meissner plexus?

**2. Answer any five questions**

2 X 5 =10

- a) What do you mean by chloride shift
- b) Explain vital capacity and tidal volume.
- c) Write two symptoms of carbon monoxide poisoning.
- d) How does temperature affect oxygen dissociation curve?
- e) What is the role of counter current heat exchange in thermoregulation
- f) Write down the composition & function of bile
- g) What is Chylomicrons?

3. **Answer any one question**

5X 1 = 5

- a) What do you mean by Bohr Effect? Briefly describe the process of transportation of O<sub>2</sub> from lungs to tissue with a suitable diagram. 2+3
- b) Describe physiological and structural adaptation of endotherms for thermoregulation 3+2
- c) What are the components of Intestinal juice? What is chyle? What is ileocolic sphincter? 3+1+1