





UNIVERSITY OF THE PUNJAB
B.S. 4 Years Program / Fourth Semester – 2019

Roll No.

Paper: Zoology-IV (Physiology)
Course Code: ZOOL-203 / ZOL-22302 Part – II

Time: 2 Hrs. 45 Min. Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Shortly answer the following questions.

(2x10=20)

- i. Give the location and role of pineal gland.
- ii. Describe the endocrine system of molluscs
- iii. What do you know about hearing and equilibrium in water?
- iv. Describe the endocrine system of annelids.
- v. Compare the structure and function of mitochondria and chloroplast.
- vi. Discuss the structure and function of lysosomes.
- vii. Discuss the gas exchange portion of human respiratory system.
- viii. Briefly describe hemoglobin as a respiratory pigment.
- ix. Compare continuous versus discontinuous feeders.
- x. Describe, briefly, the role of small intestine in digestion.

Q.3. Briefly answer the following questions. All questions carry equal marks. (10x3=30)

- I. Give an account of the structure and function of Cytoskeleton.
- ii. Give a brief account of the mechanism involved in changing the resting membrane potential across the plasma membrane into the action potential.
- iii. Compare the structure and function of vertebrate blood vessels.

