



THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Write short answers to the following questions: (15x2=30)

- a) What is pellicle? Give its functions.
- b) Describe the effect of myelin sheath on the speed of nerve impulse.
- c) Describe the function of optic tactum.
- d) Describe sympathetic nervous system and its functions.
- e) Describe ommatidia in compound eyes.
- f) What is Sonar?
- g) Enlist different types of chemical messengers.
- h) Give functions of parathyroid gland hormones
- i) Give functions of pineal gland
- j) What are paracrine and endocrine gland?
- k) What is the need of transport system in animals
- l) Describe endocrine system of crustaceans.
- m) Write the functions of Oxytocin and prolactin.
- n) Describe coelomic fluids and its functions.
- o) Write the functions of neutrophils and eosinophils.

Answer the following questions.

(3x10=30)

Q.No.2: How action potential is generated? What are different phases of action potential?

Q. No 3. Describe tracheal system of an insect

Q. No 4. How does the respiratory system of birds differ from that of mammals?