

(FOR THE CANDIDATES ADMITTED

24UZY101

DURING THE ACADEMIC YEAR 2024

ONLY)

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : NOVEMBER-2024

BSC ZOOLOGY

MAXIMUM MARKS: 75

SEMESTE-I

TIME : 3 HOURS

PART - III

24UZY101 – NONCHORDATA

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

1. Name the primary method of reproduction in *Paramecium caudatum*?
a) Budding b) Binary fission c) Fragmentation d) Sexual reproduction
2. What is the primary function of the canal system in sponges?
a) Gas exchange b) Nutrient absorption c) Reproduction d) Locomotion
3. Excretion *Ascaris lumbricoides* is carried out by _____.
a) Flame cells b) Nephridia c) Gland cells d) Spicules
4. Tell the respiratory system of *Periplaneta Americana*.
a) Gills b) Lungs c) Tracheae d) Skin
5. Which part of the *Pila globosa* is responsible for digestion
a) Foot b) Mantle c) Radula d) Shell

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. What is conjugation? Write about conjugation in paramecium.
7. Define coral reef.
8. What is metamerism?
9. Name few Arthropod Vectors
10. Brief Water Vascular System:

SECTION – B

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Discuss the general characteristics of phylum Nonchordata.
(OR)
b) Explain the feeding mechanism of *Paramecium caudatum*.

12. a) Sketch the life cycle of *Obelia geniculata*.
(OR)
b) Add notes on the reproductive system of *Taenia solium*
13. a) Demonstrate the sexual dimorphism in *Ascaris lumbricoides*.
(OR)
b) Prove that digestion in *Megascolex mauritte* enhances soil fertility.
14. a) Draw diagram of digestive system of *Periplaneta americana* and explain.
(OR)
b) Brief a note on nervous system of *Periplaneta americana*
15. a) Describe the structure of *Pila globosa*.
(OR)
b) Explain the significance of torsion in mollusca.

SECTION – C**(5 X 8 = 40 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 (Or) K5)**

16. a) Describe at least four notable protozoan diseases, including their causative agents, transmission methods, clinical symptoms, and prevention strategies(K4)
(OR)
b) Discuss the economic importance of protozoa.(K4)
17. a) Write an essay on canal system in sponges. (K4)
(OR)
b) Compare and Contrast different types of coral reefs. (K5)
18. a) Discuss the life cycle of *Ascaris lumbricoides*. (K4)
(OR)
b) Evaluate the importance of metamerism in Annelids.(K4)
19. a) Peritarsus is a connecting link justify. (K5)
(OR)
b) Elaborate a note on the mouthparts of cockroach with diagram(K5)
20. a) Categorize the various larval forms in Echinoderms (K4)
(OR)
b) Analyze the structure of water vascular system of *Asterias rubens*(K4)