

NGM COLLEGE (AUTONOMOUS) POLLACHI

END-OF-SEMESTER EXAMINATIONS: DECEMBER- 2022

B. Sc-Zoology

MAXIMUM MARKS: 50

I SEMESTER

TIME: 3 HOURS

PART - III

NON CHORDATA

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

1. *Trypanosoma* belongs to which of the following group?
(a) mastigophora (b) sarcodina (c) sporozoa (d) ciliata
2. This is a flagellated larva of *Leucosolenia* _____
(a) Maggot (b) Kedia (c) Planula (d) Parenchymula
3. In the life cycle of *Ascaris*, the infective stage is _____
(a) Third larva (b) Second larva (c) Cyst (d) Fertilized egg
4. There is no separate digestive gland in the following groups _____
(a) Insecta (b) Mammalia (c) Aves (d) Pisces
5. The respiratory pigment of the molluscs is _____
(a) Haemoglobin in the blood plasma (b) Haemocyanin in the blood plasma
(c) Myoglobin in blood cells (d) Hemocyanin in the blood cells.

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. What is Hyperparasitism?
7. Name the Obelia larva and explain its features.
8. Write a short note on body setae.
9. Comment on spiracles.
10. Briefly tell about madreporite.

SECTION – B

(5 X 3 = 15 MARKS)

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

(Qn. No. 11 to 15 Questions for Short Answers with internal choices)

(K3)

11. a) Explain the nutrition in paramecium.
(OR)
b) List out the general characters of non chordates.
12. a) Illustrate the canal system in sponges.
(OR)
b) Give an account on the types of coral reefs.

13. a) Describe the structure of *Ascaris*.
(OR)
b) Discuss on the metamerism in Annelids.
14. a) With a neat sketch, describe the structure of mouthparts of Cockroach.
(OR)
b) Give a short account on *Peripatus* as a living fossil.
15. a) Write briefly about the respiratory system of *Pila*
(OR)
b) Describe the larval forms of an Echinoderm.

SECTION – C

(5 X 5 = 25 MARKS)

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

(Qn. No. 16 to 20 Questions for Long Answers with internal choices (K4 (Or) K5)

16. a) Explain in detail protozoan parasites.
(OR)
b) Outline the classification of Nonchordata upto class level with an example.
17. a) Describe the reproduction and life cycle of *Taenia solium*.
(OR)
b) How does *Leucosolenia* reproduce and develop?
18. a) Describe the reproduction and life cycle of *Ascaris*
(OR)
b) Give an account on the digestion in *Megascolex mauritti*
19. a) Discuss on any three human diseases caused by arthropods.
(OR)
b) Describe the reproductive system in *Periplanata americana*.
20. a) Describe the digestive system in *Asterial rubens*
(OR)
b) Write an essay on the economic importance of Mollusca.

A-11
