Zoology [Minor] [NEP]

B.Sc. First Semester End Examination-2024

(Regular & Supplementary Paper)

PAPER-MI101T

[Non-Chordates]

Full Marks: 40

Time: 02 Hrs.

The figures in the right hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Group A

1.	Answer any FIVE questions of the following:	x2= 10
a)	What is tautonymy?	2
b)	Differentiate between flagellum and cilum.	2
c)	Describe the life cycle of Fasciola hepatica through	a flow
	chart.	2
d)	Differentiate between Lobopodia and Filopodia.	2
e)	Differentiate homonymy and synonymy.	2
f)	Write the function of contractile vacuole in Paramoec	ium sp.
		2

g) Differentiate between nymph and larva. What do you mean by

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	definitive host and intermediate host?	
h)	What is ommatidium? Mention the mouth Parts of cockroac	h
	1+	- 1
i)	Write the evolutionary significance of phylum onychophor	a
	Mention one arthropod character found in onychophora.	- 1
	Group B	
2.	Answer any FOUR questions of the following: $4x5 = 2$	20
a)	What is Pseudopodium? Mention the types of Pseudopod	lia
	studied by you.	4
b)	Briefly describe the process of conjugation in Paramocium s	p
		5
c)	Define metamorphosis Discuss give an account	of
	metamorphosis in insects.	4
d)	Describe the mechanism of aerial respiration in Arthropoda.	5
e)	Discuss the phenomenon of torsion in gastropoda. What	is
	detorsion? 4+	1
f)	Briefly describe the water vascular system in Asterias sp.	5
g)	Briefly describe the sol-gel theory in respect to amoeboi	d
	movement.	5
h)	Write about Parasitic adaptations in helminthes.	5

Group C

- 3. Answer any ONE question of the following: $1 \times 10 = 10$
- a) What is spicule? Write the types of spicule studied by you.

 Describe with diagram, the ascon type canal system in Porifera.

 1+3+6
- b) With diagram briefly discuss the life cycle of Wuchereria bancrofti. Add a note on the Pathogenicity and control measure of Wuchereria bancrofti.

 6+2+2