

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

1	1	7	1	2
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Exam. Code :

5	0	1	1
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**Bachelor of Science (FYUP) 1st Semester
(2124)**

ZOOLOGY

Paper : Diversity of Non-Chordates ZOODSC1

Time Allowed : Three Hours]

[Maximum Marks : 75

Note :— Attempt **FIVE** questions in all including Q.No. 1 which is compulsory and selecting **ONE** question from each Unit. Draw neat and well labelled diagrams wherever required.

1. Describe the following :—

- (a) Chanocytes.
- (b) Mention 5 adaptations in helminth parasites.
- (c) Brief note on malarial parasite.
- (d) Explain the parts of mouth in cockroach.
- (e) Draw asconoid type of canal system.
- (f) Bipinnaria larva
- (g) Ecological note on *Octopus*.
- (h) List 5 characteristics of class Insecta.
- (i) Connecting link
- (j) Threats to coral reefs.

$10 \times 1\frac{1}{2} = 15$

UNIT—1

2. (i) Give an account on the asexual and sexual reproduction in protozoans.
- (ii) Discuss locomotion in *Amoeba*. 7½, 7½
3. (i) Describe structure and functions of spicules in sponges.
- (ii) Write eco-morphological note on *Euplectella*. 7½, 7½

UNIT—2

4. (i) Give an account of polymorphism in Cnidaria. Draw suitable diagrams.
- (ii) Write briefly on ecological importance of coral reefs. 7½, 7½
5. (i) Give general characteristics of Platyhelminths. Give suitable examples.
- (ii) Write a note on medical importance of *Ancylostoma*. 7½, 7½

UNIT—3

6. Explain the following :
- (i) Reproduction in Oligochates
- (ii) Metameric segmentation. 7½, 7½
7. Give an account of social organization in termites. 15

UNIT—4

8. Give an account of torsion and detorsion in Gastopoda. Give suitable diagrams. 15
9. Give an account of water vascular system in Asteroidea. 15