

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9

Sub. Code :

1	1	7	1	2
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Exam. Code :

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Bachelor of Science (FYUP) 1st Semester
(2125)

ZOOLOGY

Paper : Diversity of Non-Chordates ZOODSC1

Time Allowed : Three Hours]

[Maximum Marks : 67

Note :— Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit. Support your answers with neat diagrams wherever necessary.

I. Write short notes on :

- Trichocyst
- Multiple fission in Protozoa
- Spicules
- Coral bleaching
- Trematoda
- Scolex
- Limulus*
- Metamerism
- Tubefeet
- Sepia*

1.5×10=15

UNIT—I

- II. (a) Give an account of locomotion in Protozoa. 6
(b) Discuss in detail the canal system in Sponges. 7
- III. Give a detailed account of the following :
- (a) Life cycle and pathogenicity of *Plasmodium*. 8
(b) Conjugation: Need, significance, and difference from sexual reproduction. 5

UNIT—II

- IV. (a) Give a detailed account of life cycle and parasitic adaptations of *Ascaris*. 7
(b) Discuss classification of Phylum Cnidaria up to classes. 6
- V. (a) Give an account of types and formation of coral reefs. 8
(b) Discuss parasitic adaptations of *Taenia solium*. 5

UNIT—III

- VI. (a) Give an account of eco-morphological importance of *Julus*. 5
(b) Discuss in detail the social organization in honey bees. 8
- VII. (a) Discuss in detail the classification of phylum Annelida up to classes. 5
(b) Give a detailed account of reproduction in Oligochaeta. 8

UNIT—IV

- VIII.(a) Give an account of torsion and detorsion in
Gastropoda. 8
- (b) Write an eco-morphological note on *Octopus*. 5
- IX. (a) Write the classification of the phylum Echinodermata up to
classes. 5
- (b) Explain in detail the water vascular system in Asteroidea
and its functions. 8