

Total No. of Printed Pages—4

1 SEM TDC ZOO M 1 (N/O)

2019

(November)

ZOOLOGY

(Major)

Course : 101

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

(New Course)

Full Marks : 48

Pass Marks : 14

**(NON-CHORDATES, DIVERSITY, SYSTEMATICS
AND EVOLUTION)**

1. Fill in the blanks : 1×5=5

- (a) The _____ is the structure of cell related to intracellular digestion.
- (b) The nutrition in *Euglena* is _____.
- (c) The spicules, which constitutes the skeleton of *Sycon* is developed from the _____.
- (d) *Neopilina* comes under class _____.
- (e) Volutin granules are found in _____.

(2)

2. Write short notes on any *two* of the following : 3½×2=7

(a) Speciation

(b) Chemotaxonomy

(c) Trinomial nomenclature

3. Define coelenterates. Describe in brief the polymorphism or defensive mechanism in Coelenterata. 1+8=9

4. Describe in brief the coelom and metamerism in annelids. 9

Or

Give an account on larval forms in Crustacea.

5. Define torsion. Describe the effect of torsion in gastropods. 1+8=9

Or

Describe in brief the excretory system of *Pila*. 9

6. Define water vascular system. Describe the water vascular system in starfish. 1+8=9

Or

Distinguish between brachiolaria larva and doliolaria larva. 9

(3)

(Old Course)

Full Marks : 48

Pass Marks : 19

(ANIMAL DIVERSITY—I AND SYSTEMATICS)

Animal Diversity—I (Non-chordates)

(Marks : 32)

1. Fill in the blanks : 1×3=3
- (a) In ____ nuclear membrane is absent.
- (b) ____ is considered as the most primitive and simplest metazoans.
- (c) *Asterias* belongs to the class ____.
2. Write short notes on any two of the following : 4×2=8
- (a) General characters of Protozoa
- (b) Coral reefs
- (c) Torsion in gastropods
3. Describe in brief the different types of locomotions in *Paramecium*. 7

Or

Describe in brief the canal system in Porifera.

4. Write a note on mouthparts in insects. 7

Or

Describe in brief the affinity of *Onychophora*.

(4)

5. Describe the digestive system of *Pila* with suitable diagram. 5+2=7

Or

- Describe the water vascular system in starfish with a diagram. 5+2=7

Systematics

(Marks : 16)

6. Fill in the blanks : 1×2=2

(a) The oldest form of taxonomy is called _____ taxonomy.

(b) _____ used Greek words for genus and species.

7. Define taxonomic hierarchy. Describe in brief the hierarchy of classification of animals.

2+4=6

8. Write short notes on any two of the following : 4×2=8

(a) Any four rules of zoological nomenclature

(b) Chemotaxonomy

(c) Biological species concept
