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1 SEM TDC ZOO M 1 (N/O)

2018

(November)

ZOOLOGY

(Major)

Course : 101

Full Marks : 48

Pass Marks : 19/14

Time : 2 hours



The figures in the margin indicate full marks for the questions

(New Course)

(Non-chordate Diversity, Systematics and Evolution)

1. Fill in the blanks :

1×5=5

- (a) Volutin granules are found in ____.
- (b) ____ is the first phylum to illustrate the organ system.
- (c) Minute scales are present in the wings of the insects of the order ____.
- (d) Animals, that bear spines on their skin, are grouped as phylum ____.
- (e) In the hierarchy of classification only ____ categories were used by Carolus Linnaeus.

(Turn Over)

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

- (a) Hierarchy of classification
- (b) Numerical taxonomy
- (c) Cladistic classification
- (d) Type concept in zoological nomenclature

3. What is cnidoblast? Write about the different types of cnidoblast and mode of action of it. 1+4+4=9

Or

Explain different modes of locomotion in Protozoa. 9

4. What is septal nephridium? Where is it located and what physiological function does it perform? Describe the structure of septal nephridium of *Pheretima*. 1+1+1+6=9

Or

Classify Nematelminthes up to order with examples. 9

5. Give an account of mouthparts in insects with suitable diagrams. 9

Or

Prepare a note on vision of arthropods. 9

6. What is ctenidia? Write about the different modes of respiration found in *Pila*. 2+7=9

Or

What is water vascular system? Discuss water vascular system in starfish. 1+8=9