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1 SEM TDC ZOO M 1 (N/O)

2015

(November)

ZOOLOGY

(Major)

Course : 101

(New Course)

(Non-chordate Diversity, Systematics and Evolution)

Full Marks : 48

Pass Marks : 19 (Backlog) / 14 (2014 onwards)

Time : 2 hours

The figures in the margin indicate full marks for the questions

1. (a) Fill in the blanks : 1×5=5
- (i) Alternation of generation is also known as —.
 - (ii) Sponges are — bearing animals.
 - (iii) The organ system is first seen in the phylum —.
 - (iv) Peripatus is referred as 'connecting link' between Annelida and —.
 - (v) Radula is found in —.

(b) Define the following briefly : $2 \times 4 = 8$

(i) Systematics

(ii) Pseudopodia

(iii) Cocoons of Pheretima

(iv) Madreporic plate of starfish

2. Explain the nutrition in Protozoa. 7

Or

Write about the canal system of Sycon and its significance. $5 + 2 = 7$

3. Classify Platyhelminthes up to order with example. 7

Or

What is metamerism? Write about the coelom in annelids. $2 + 5 = 7$

4. Write about the different larval forms of Crustacea. 7

Or

Show the vision in Arthropoda.

5. Discuss the respiratory system of Pila. 7

Or

Write the general characters of class Asterozoa and classify the class Asterozoa up to order with example. $3 + 4 = 7$

6. Write any one of the following : 7

(a) Hierarchy of classification

(b) Modern species concept

(c) Numerical taxonomy

(3)

(Old Course)

(**Animal Diversity and Systematics**)

Full Marks : 48

Pass Marks : 19 (Backlog) / 14 (2014 onwards)

Time : 2 hours

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

ANIMAL DIVERSITY (NON-CHORDATE)

(Marks : 32)

1. Fill in the blanks : 1×3=3
 - (a) Pore bearing animals belong to the phylum —.
 - (b) Pheretima is an example of phylum —.
 - (c) Arthropods have — appendages.

2. Answer very briefly of the following questions : 3×2=6
 - (a) Write the significance of canal system in Porifera.
 - (b) Write the importance of Pheretima.

3. Explain the different modes of reproduction in Protozoa. 8

Or

What is nematocyst? Write the structure and mode of action of cnidoblast. 1+3½+3½=8

(4)

4. Write about the different larval forms of Crustacea.
5. Write any *one* of the following :
 - (a) Coelom in annelids
 - (b) Shell diversity
 - (c) Echinoderm larva

SYSTEMATICS

(Marks : 16)

6. Fill in the blanks : 1>
 - (a) Each rank of hierarchy of classification is known as —.
 - (b) The scientific name should be printed in —.
7. What is classification? Write about the modern concept of species. 1-
8. Write short notes on (any *two*) : 3
 - (a) Binomial nomenclature
 - (b) Numerical taxonomy
 - (c) Cytotaxonomy
