

**1 SEM TDC ZOO M 1 (N/O)****2017**

( November )

**ZOOLOGY**

( Major )

Course : 101

Full Marks : 48Pass 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) Lobopodia is a type of \_\_\_\_\_ in Protozoa.

(b) *Hirudinaria* belongs to the class \_\_\_\_\_.(c) \_\_\_\_\_ type of mouthparts are found in  
common housefly.

(d) Echinoderms show \_\_\_\_\_ symmetry.

(e) The binomial method of nomenclature  
was first published in the \_\_\_\_\_ edition  
of *Systema Naturae*.

( Turn Over )

( 2 )

2. What are the skeletal materials in sponges? Write about different individuals found in Coelenterates.

2+7=9

Or

Classify the class Mastigophora up to order with examples.

9

3. Write the systematic position of tapeworm. What is metamerism? Differentiate between metamerism and pseudometamerism. 2+2+5=9

Or

Write the systematic position of Pheretima and general characters of Helminths. 2+7=9

2+7=9

4. Which group of the animals is the connecting link between Annelida and Arthropoda? Write its Annelidan or Arthropodan characters.

1+8=9

5. What is radula? Write about the digestive system of Pila.

3+6=9

Or

Classify Echinodermata up to the class with example.

9

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( Continued )

( 3 )

6. Write short notes on (any two) :  $3\frac{1}{2} \times 2 = 7$

- (a) Classification
- (b) Species
- (c) Nomenclature
- (d) Cytotaxonomy

( Old Course )

( Animal Diversity and Systematics )

ANIMAL DIVERSITY (NON-CHORDATE)

( Marks : 32 )

1. Fill in the blanks :

1×3=3

- (a) Pore-bearing animals are known as \_\_\_\_\_.
- (b) *Ascaris lumbricoides* are commonly known as \_\_\_\_\_ worm.
- (c) Onychophora is the connecting link between Annelida and \_\_\_\_\_.

2. Write on the following (any two) :  $4 \times 2 = 8$

- (a) General characters of Platyhelminthes
- (b) Torsion in Mollusca
- (c) Coelom in Annelids
- (d) Shell diversity in Mollusca

3. Write a note on locomotion in Protozoa. 7

Or

What is coral? Write about the canal system in Sycon.

2+5=7

( Turn Over )

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4. Describe different types of vision found in Arthropoda.

7

Or

Write two characters and example of Crustacea along with a description of one Crustacean larva.

2+5=7

5. What is water-vascular system in starfish? Write about the affinities of echinoderm larva.

3+4=7

Or

Write the affinities of Rotifera.

7

### SYSTEMATICS

( Marks : 16 )

6. Fill in the blanks :

1×2=2

(a) Each rank of hierarchy of classification is known as \_\_\_\_.

(b) The binomial method of classification was first published in \_\_\_\_ edition of *Systema Naturae*.

7. What is systematics? Write about hierarchy of classification.

1+5=6

8. Write short notes on (any two) :

4×2=8

(a) Chemotaxonomy

(b) Numerical taxonomy

(c) Cytotaxonomy

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