

1 SEM TDC ZOO M 1 (N/O)

2017

(November)

ZOOLOGY

(Major)

Course : 101

Full Marks : 48

Pass Marks : 19/14

Time : 2 hours

Zoo-101

Phy-101

Geo-101

Math-101

Bot-101

Stats-10

Chem-10

With G

The figures in the margin indicate full marks for the questions

(New Course)

(Non-chordate Diversity, Systematics and Evolution)

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*.

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

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

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 : $1\times 3=3$
- (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*.

$2+5=7$

(4)

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
