

Total number of pages-4

63 (FY)SEM-5/MAJ/ZOOMAJ3014

2025

ZOOLOGY

(MAJOR)

Paper : ZOOMAJ3014

**Basic Systematics and Diversity
of Life-I (Non Cordates)**

Full Marks : 50

Pass Marks: 20

Time : Three hours

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

1 Choose the correct answer : 1×5=5

(a) Who is known as the 'Father of
Taxonomy' ?

(i) Charles Darwin

(ii) Carolus Linnaeus

(iii) Ernst Haeckel

(iv) Aristotle

(b) Binomial nomenclature was developed
by

(i) Lamarck

(ii) Linnaeus

(iii) Whittaker

(iv) Mendel

(c) Compound eyes are made up of several
units called

(i) Cilia

(ii) cone cells

(iii) ommatidia

(iv) Rod cells

(d) Which of the infective stage to primary
host of Fasciola ?

(i) Miracidium

(ii) Metacercaria

(iii) Sporocyst

(iv) Cercaria

(e) Book lungs are respiratory organs
found in

(i) Insects

(ii) Crustaceans

(iii) Spiders and scorpions

(iv) Millipedes

2. Answer the following questions : **(any five)**
2×5=10

- (a) Define taxonomy.
- (b) Distinguish between Monoaxon and triaxon spicules.
- (c) Define metagenesis.
- (d) What are flame cells ?
- (e) What is book lungs ?
- (f) Write the name of the insect vector that is involved in the transmission of elephantiasis and name the intermediate host of *Wuchereria bancrofti*.
- (g) What is binomial nomenclature ?

3. Answer the following questions :
(any five) 5×5=25

- (a) Write a short note on chemotaxonomy.
- (b) Write short notes on respiratory organ of Prawn.
- (c) Give the application of important rules of Zoological nomenclature.

(d) Describe neatly the larval stages of *Fasciola hepatica* from cercaria to Metacercaria.

(e) Describe the nervous system of pila with a labelled diagram.

(f) Write a short note on strabilla of *Jaenia Solium*.

(g) Write a short note on Cestodiasis.

(h) Write a note on Filariasis.

4. Answer the following question : **(any one)**
10×1=10

(a) Give an illustrated account of the life history of *Ascaris*. What disease is caused by *Ascaris* ? Write an account of its pathogenicity, therapy and prophylaxis.

(b) Give an account of the life cycle of *Jaenia solium* with a labelled diagram highlighting its characteristics features.