

**(DZOO01)**

Assignment 1

M.Sc. DEGREE EXAMINATION,  
DECEMBER 2020.

Zoology  
First Year

SYSTEMATICS AND ANATOMY OF INVERTEBRATES

. MAXIMUM MARKS: 30

ANSWER ALL QUESTIONS

1. Describe the various types of reproductive processes in protozoa.
2. Write short notes :
  - (i) Classification of Porifera
  - (ii) Development in sponges.
3. Give a detailed account on parasitic adaptations of platyhelminthes.
4. Write short notes :
  - (i) Polymorphism in coelenterates
  - (ii) General organisation in nemathelminthes.
5. Describe the general organisation of phylum annelida.

Assignment 2

M.Sc. DEGREE EXAMINATION,  
DECEMBER 2020.

Zoology  
First Year

SYSTEMATICS AND ANATOMY OF INVERTEBRATES

MAXIMUM MARKS: 30

ANSWER ALL QUESTIONS

1. Write short notes :
    - (i) Trochophore larve
    - (ii) Classification of arthropoda.
  2. Give an account on the larval forms in echinoderms.
  3. Write short notes :
    - (i) General organization of mollusca
    - (ii) Classification of echinodermata.
  4. Describe the general organization of Ectoprocta.
  5. Write short notes :
    - (i) Sipuncula
    - (ii) Rotifera.
-

**(DZOO02)**

Assignment 1

M.Sc. DEGREE EXAMINATION,  
DECEMBER 2020.

First Year

Zoology

SYSTEMATICS AND ANATOMY OF CHORDATES AND GAMETE BIOLOGY

MAXIMUM MARKS: 30

ANSWER ALL QUESTIONS

1. Describe the general characters of phylum chordates.
2. Write short notes on :
  - (i) Urochordata
  - (ii) Cephalo chordata.
3. Give a detailed account on parental care in fishes.
4. Write short notes on :
  - (i) Poisonous snakes
  - (ii) Classification of amphibia.
5. Give a detailed account on common birds of India.

**(DZOO02)**

**Assignment 2**

**M.Sc. DEGREE EXAMINATION,  
DECEMBER 2020.**

**First Year**

**Zoology**

**SYSTEMATICS AND ANATOMY OF CHORDATES AND GAMETE BIOLOGY**

**MAXIMUM MARKS: 30**

**ANSWER ALL QUESTIONS**

1 Write short notes on :

- (i) Archaeopteryx
- (ii) Flightless birds.

2 Give an account on South Indian mammals.

3 Write short notes on :

- (i) Aquatic mammals
- (ii) General characters of mammals.

4 Give an account on Vitelogenesis.

5 Write short notes on :

- (i) Sperm
  - (ii) Ovary.
-

**(DZOO03)**

Assignment 1

M.Sc. DEGREE EXAMINATION,  
DECEMBER 2020.

First Year  
Zoology

CELL BIOLOGY, GENETICS AND EVOLUTION

MAXIMUM MARKS: 30

ANSWER ALL QUESTIONS

1. Give an account on Mitochondria.
2. Write short notes on :
  - (i) Plasma membrane
  - (ii) Golgi complex.
3. Give an account on protein synthesis.
4. Write short notes on :
  - (i) *t* RNA
  - (ii) DNA structure.
5. Give an account on abnormalities of chromosomes.

**(DZOO03)**

**Assignment 2**

M.Sc. DEGREE EXAMINATION,  
DECEMBER 2020.

First Year  
Zoology

CELL BIOLOGY, GENETICS AND EVOLUTION

MAXIMUM MARKS: 30

ANSWER ALL QUESTIONS

- 1) Write short notes on :
    - (i) Meiosis
    - (ii) Giant chromosomes.
  - 2) Give an account on sex linked inheritance.
  - 3) Write short notes on :
    - (i) Multiple alleles
    - (ii) Interaction of genes.
  - 4) What is evolution? Give an account on theories of evolution.
  - 5) Write short notes on :
    - (i) Isolation
    - (ii) Hardy Weinberg law.
-

**(DZOO04)**

Assignment 1

M.Sc. DEGREE EXAMINATION,  
DECEMBER 2020.

First Year

Zoology

ANIMAL ECOLOGY AND WILDLIFE

MAXIMUM MARKS: 30

ANSWER ALL QUESTIONS

1. Give an account on thermal stratification of natural water bodies.
2. Write short notes on :
  - a) Life supporting properties of water
  - b) Structure and functions of Ecosystem.
3. Give an account on biogeochemical cycle of nitrogen.
4. Write short notes on :
  - a. Concept of productivity
  - b. Food web.
5. Give an account on concepts of habitat and ecological niche.

**(DZOO04)**

Assignment 2

M.Sc. DEGREE EXAMINATION,  
DECEMBER 2020.

First Year

Zoology

ANIMAL ECOLOGY AND WILDLIFE

MAXIMUM MARKS: 30

ANSWER ALL QUESTIONS

- 1) Write short notes on :
    - a) Mutualism
    - b) Allelopathy.
  2. Give an account on energy partitioning and optimization.
  3. Write short notes on :
    - a) Basic concepts of rates
    - b) K-selection.
  4. Give an account of IUCN classification of rare animals.
  5. Write short notes on :
    - a) Hot spots
    - b) Wildlife trade.
-