

(DZOO01)

ASSIGNMENT - 1

M.Sc. DEGREE EXAMINATION, MARCH, 2023.

First Year

Zoology

Paper I – SYSTEMATICS AND ANATOMY OF INVERTEBRATES

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

1. (a) Give a detailed account on the development in sponges.
(b) Write short notes on:
 - (i) General organization of protozoa.
 - (ii) Classification of Porifera.
2. (a) Give a detailed account on the general organization and classification of coelenterate.
(b) Write short notes on:
 - (i) Parasitic adaptations in Platyhelminthes.
 - (ii) Polymorphism in coelenterates.
3. (a) Give a detailed account on the general organization and classification of phylum annelida.
(b) Write short notes on:
 - (i) Evolutionary significance of trochophere larvae.
 - (ii) General organization of arthropoda.

(DZOO01)

ASSIGNMENT - 2

M.Sc. DEGREE EXAMINATION, MARCH, 2023.

First Year

Zoology

Paper I – SYSTEMATICS AND ANATOMY OF INVERTEBRATES

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

1. (a) Give a detailed account on the general organization and classification of phylum Echinodermata.
 - (b) Write short notes on:
 - (i) General organization of phylum mollusca
 - (ii) Larval forms of echinoderms.
 2. (a) Give a detailed account on the general organization of Rotifer.
 - (b) Write short notes on:
 - (i) Ectoprocta.
 - (ii) Chaetognatha.
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(DZOO02)

ASSIGNMENT - 1

M.Sc. DEGREE EXAMINATION, MARCH 2023.

First Year

Zoology

Paper II – SYSTEMATICS AND ANATOMY OF CHORDATES AND
GAMETE BIOLOGY

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

1. (a) Give an account on the general characters of the phylum chordates.
(b) Write short notes on:
 - (i) Specialized characters of hemichordate
 - (ii) Specialized characters of urochordata

2. (a) Give an account on the migration of fishes.
(b) Write short notes on:
 - (i) Classification of fishes.
 - (ii) Poisonous snakes.

3. (a) Give an account on the general characters and classification of Aves.
(b) Write short notes on:
 - (i) Common birds of India.
 - (ii) Archaeopteryx and its significance.

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ASSIGNMENT - 2

M.Sc. DEGREE EXAMINATION, MARCH 2023.

First Year

Zoology

Paper II – SYSTEMATICS AND ANATOMY OF CHORDATES AND
GAMETEBIOLOGY

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

1. (a) Give an account on the General characters of mammals.
- (b) Write short notes on:
 - (i) South Indian mammals
 - (ii) Adaptive radiation in mammals
2. (a) What is Oogenesis? Describe in detail.
- (b) Write short notes on:
 - (i) Spermatogenesis
 - (ii) Fertilization

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(DZOO03)

ASSIGNMENT - 1

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First Year

Zoology

Paper III – CELL BIOLOGY, GENETICS AND EVOLUTION

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

1. (a) Give a detailed account on the endoplasmic reticulum.
- (b) Write short notes on :
 - (i) Plasma membrane.
 - (ii) Cell membrane

2. (a) Describe in detail DNA as genetic material
- (b) Write short notes on:
 - (i) Protein synthesis
 - (ii) t RNA.

3. (a) Write an essay on giant chromosomes.
- (b) Write short notes on:
 - (i) Mitosis
 - (ii) Structure of chromosome.

(DZOO03)

ASSIGNMENT - 2

M.Sc. DEGREE EXAMINATION ,MARCH 2023.

First Year

Zoology

Paper III – CELL BIOLOGY, GENETICS AND EVOLUTION

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

1. (a) Write an essay on interaction of genes.
 - (b) Write short notes on:
 - (i) Sex determination
 - (ii) Multiple alleles.
 2. (a) What is evolution? Describe various theories of evolution
 - (b) Write short notes on:
 - (i) Species concept
 - (ii) Hardyweinberg law.
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(DZOO04)

ASSIGNMENT - 1

M.Sc. DEGREE EXAMINATION, MARCH 2023.

First Year

Zoology

Paper IV – ANIMAL ECOLOGY AND WILD LIFE

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

1. (a) Give a detailed account on light penetration and the factors affecting light availability in natural waters.
- (b) Write short notes on :
 - (i) Feed-back loop.
 - (ii) Thermal stratification.
2. (a) Give a detailed account on the biogeochemical cycle of nitrogen.
- (b) Write short notes on:
 - (i) Food webs.
 - (ii) Shelford's law of tolerance.
3. (a) Give a detailed account on parasitism and allelopathy.
- (b) Write short notes on:
 - (i) Commensalisms
 - (ii) Ecological nich.

(DZOO04)

ASSIGNMENT - 2

M.Sc. DEGREE EXAMINATION, MARCH 2023.

First Year

Zoology

Paper IV – ANIMAL ECOLOGY AND WILD LIFE

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

1. (a) Write an essay on density-independent and density-dependent action in population control.
 - (b) Write short notes on:
 - (i) K-selection.
 - (ii) Basic concepts of rates.
2. (a) Give a detailed account on IUCN classification of rare animals.
 - (b) Write short notes on:
 - (i) Hot spots.
 - (ii) WWF.