

(DZOO01)

ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, MAY/JUNE-2025

First Year

Zoology

Paper I – SYSTEMATICS AND ANATOMY OF INVERTEBRATES
MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

1. (a) Give an account on the general organization and classification of the phylum Porifera.
(b) Write short notes on
 - (i) Various types of reproductive processes in protozoa
 - (ii) Classification of protozoa.
2. (a) Give an account on the parasitic adaptations in Platyhelminthes.
(b) Write short notes on
 - (i) Polymorphism in coelenterates
 - (ii) General organization of phylum Nematelminthes
3. (a) Give an account on the general organization and classification of the phylum Annelida.
(b) Write short notes on
 - (i) Evolutionary significance of Trochophore larvae
 - (ii) Classification of Annelida

(DZOO01)

ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, MAY/JUNE-2025

First Year

Zoology

Paper I – SYSTEMATICS AND ANATOMY OF INVERTEBRATES
MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

1. (a) Describe the larval forms of echinoderms.
(b) Write short notes on
 - (i) General organization of phylum Mollusca
 - (ii) Classification of Echinodermata
 2. (a) Give an account on the general organization of Rotifera.
(b) Write short notes on
 - (i) Ectoprocta
 - (ii) Sipuncula.
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2(DZOO01)

(DZOO02)

ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, MAY/JUNE-2025

First Year

Zoology

Paper 2 – Systematics & Anatomy of Chordates & Gamete Biology

MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

1. (a) Give an account on Urochordata.
(b) Write short notes on
 - (i) General characters of chordates
 - (ii) Specierlized characters of Proto chordates
2. (a) Write an essay on the migration of fishes
(b) Write short notes on
 - (i) Characters of amphibia
 - (ii) Non – Poisonous snakes
3. (a) Give an account on the adaptation of birds to flight.
(b) Write short notes on
 - (i) Flight less birds
 - (ii) Feathers in birds

(DZOO02)

ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, MAY/JUNE-2025

First Year

Zoology

Paper 2 – Systematics & Anatomy of Chordates & Gamete Biology

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

1. (a) Give an account on general characters of mammals
 - (b) Write short notes on
 - (i) Adaptative radiation in Mammals
 - (ii) Aquatic mammals
 2. (a) Give an account on parental care in fishes
 - (b) Write short notes on
 - (i) Patterns of cleavage
 - (ii) Marsupials
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2(DZOO01)

(DZOO03)

ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, MAY/JUNE-2025

First Year

Zoology

Paper III – CELL BIOLOGY, GENETICS AND EVOLUTION
MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

1. (a) Give an account on the Endoplasmic reticulum.
(b) Write short notes on
 - (i) Mitochondria
 - (ii) Plasma membrane
2. (a) Give an account on the DNA as genetic material.
(b) Write short notes on
 - (i) mRNA
 - (ii) Protein synthesis
3. (a) Give an account on the abnormalities of the chromosomes.
(b) Write short notes on
 - (i) Giant chromosomes
 - (ii) Meiosis

(DZOO03)

ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, MAY/JUNE-2025

First Year

Zoology

Paper III – CELL BIOLOGY, GENETICS AND EVOLUTION
MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

1. (a) Give an account on the sex determination and sex linked inheritance.
(b) Write short notes on
 - (i) Multiple alleles
 - (ii) Interaction of genes
 2. (a) Describe the theories of evolution.
(b) Write short notes on
 - (i) Species concept
 - (ii) Hardyweinberg law.
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2(DZOO03)

(DZOO04)

ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, MAY/JUNE-2025

First Year

Zoology

Paper IV — ANIMAL ECOLOGY AND WILDLIFE
MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

1. (a) Give an account on the light penetration and the factors affecting light availability in natural waters.
(b) Write short notes on :
 - (i) Life supporting properties of water
 - (ii) Structure and functions of ecosystem
2. (a) Give an account on the biogeochemical cycles of carbon and nitrogen.
(b) Write short notes on :
 - (i) Concept of productivity
 - (ii) Shelford's law of tolerance
3. (a) Give an account on the concepts of habitat and ecological niche.
(b) Write short notes on :
 - (i) Commensalism
 - (ii) Allelopathy

(DZOO04)

ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, MAY/JUNE-2025

First Year

Zoology

Paper IV — ANIMAL ECOLOGY AND WILDLIFE
MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

1. (a) Write an essay on energy partitioning and optimization.
(b) Write short notes on :
 - (i) Properties of the population group
 - (ii) r and k-selection
 2. (a) Give an account on the IUCN classification of rare animals.
(b) Write short notes on :
 - (i) Hot spots
 - (ii) Biosphere reserves.
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2(DZOO04)