

**(DZOO21)**

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

Second Year

Zoology

Paper V – ANIMAL PHYSIOLOGY  
MAXIMUM MARKS :30  
ANSWER ALL QUESTIONS

1. (a) Give an account on the enzymes and their role in digestion.  
(b) Write short notes on
  - (i) Role of vitamins in biochemical reactions
  - (ii) Digestion and metabolism of carbohydrates.
2. (a) Write an essay on the general account of circulatory system in animals.  
(b) Write short notes on
  - (i) Physiology of heart
  - (ii) Transport of gases in animals.
3. (a) Describe the mechanism of nerve impulse transmission in animals.  
(b) Write short notes on
  - (i) Brain
  - (ii) Comparative account of nerves system in animals.

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

Second Year

Zoology

Paper V – ANIMAL PHYSIOLOGY  
MAXIMUM MARKS :30  
ANSWER ALL QUESTIONS

1. (a) Give an account on the osmotic regulation in animals.  
(b) Write short notes on
    - (i) Excretion in animals
    - (ii) Mechanism of urine formation.
  2. (a) Give an account on the role of hormones in reproduction.  
(b) Write short notes on
    - (i) Types of muscles and their functions
    - (ii) Muscle contraction
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ASSIGNMENT-1  
M.Sc. DEGREE EXAMINATION, MAY/JUNE-2025

Second Year

Zoology

Paper VI — AQUACULTURE  
MAXIMUM MARKS :30  
ANSWER ALL QUESTIONS

1. (a) Give an account on the criteria for the selection of a species for culture.  
  
(b) Write short notes on :
  - (i) Classification of aquaculture.
  - (ii) Hypophysation.
2. (a) Give an account on the breeding and culture of common carp.  
  
(b) Write short notes on :
  - (i) Exotic fishes of India.
  - (ii) Management of nursery ponds.
3. (a) Give an account on the culture of *Penaeus monodon*.  
  
(b) Write short notes on :
  - (i) Culture of air breathing fishes.
  - (ii) Culture of milk fish.

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

Second Year

Zoology

Paper VI — AQUACULTURE  
MAXIMUM MARKS :30  
ANSWER ALL QUESTIONS

1. (a) Write an essay on sewage-fed fish culture.
  - (b) Write short notes on :
    - (i) Culture of sea weeds.
    - (ii) Culture of pearl oysters.
  2. (a) Give an account on the culture of ornamental fishes.
  - (b) Write short notes on :
    - (i) Gynogenesis
    - (ii) Cryopreservation.
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ASSIGNMENT-1  
M.Sc. DEGREE EXAMINATION, MAY/JUNE-2025

Second Year

Zoology

Paper VII – PARASITOLOGY AND IMMUNOLOGY  
MAXIMUM MARKS :30  
ANSWER ALL QUESTIONS

1. (a) Give an account on the kinds of parasites and their adaptations for parasitic life.  
(b) Write short notes on
  - (i) *Balantidium coli*
  - (ii) *Entamoeba histolytica*.
2. (a) Give an account on the biology and life cycle of *Diphyllbothrium latum*.  
(b) Write short notes on
  - (i) Biology of *Opisthorchis*
  - (ii) Biology of *Echinococcus granulosus*.
3. (a) Give an account on the biology, life cycle and nature of infection of *Dracunculus medinenensis*.  
(b) Write short notes on
  - (i) Life cycle of *Wuchereria bancrofti*
  - (ii) Biology of *Trichuris trichiura*

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

Second Year

Zoology

Paper VII – PARASITOLOGY AND IMMUNOLOGY  
MAXIMUM MARKS :30  
ANSWER ALL QUESTIONS

1. (a) What are antigens? Give an account on the structure and major class of antigens.  
(b) Write short notes on
    - (i) Natural immunity
    - (ii) Acquired immunity
  2. (a) Give an account on the organs of the immune system.  
(b) Write short notes on
    - (i) Antigen-antibody interactions
    - (ii) Structure and properties of IgG.
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ASSIGNMENT-1  
M.Sc. DEGREE EXAMINATION, MAY/JUNE-2025

Second Year

Zoology

Paper VIII – BIOTECHNOLOGY  
MAXIMUM MARKS :30  
ANSWER ALL QUESTIONS

1. (a) Give an account on the importance and applications of biotechnology.  
(b) Write short notes on
  - (i) Scope and overview of biotechnology
  - (ii) Different fields of biotechnology
2. (a) Write an essay on the role of vectors in genetic engineering.  
(b) Write short notes on
  - (i) Applications of r-DNA
  - (ii) Gene cloning
3. (a) Give an account on the preparation and sterilization of media.  
(b) Write short notes on
  - (i) Maintenance of cultures
  - (ii) Single cell culture

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

Second Year

Zoology

Paper VIII – BIOTECHNOLOGY  
MAXIMUM MARKS :30  
ANSWER ALL QUESTIONS

1. (a) Write an essay on the applications of animal cell culture.
  - (b) Write short notes on
    - (i) Animal cell culture media
    - (ii) Techniques of animal tissue culture
  2. (a) Give an account on the industrial production of antibiotics by using biotechnology.
  - (b) Write short notes on
    - (i) Production of vaccines
    - (ii) Production of enzymes
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