

(DZOO21)

ASSIGNMENT - 1
M.Sc. DEGREE EXAMINATION MARCH, 2023.
Second Year
Zoology
Paper V — ANIMAL PHYSIOLOGY
MAXIMUM : 30 MARKS
ANSWER ALL QUESTIONS

1. (a) Give a detailed account on the digestion and metabolism of proteins.
(b) Write short notes on:
 - (i) Enzymes.
 - (ii) Minerals.

2. (a) Give a detailed account on circulatory system in animals.
(b) Write short notes on:
 - (i) Respiration.
 - (ii) Respiratory pigments.

3. (a) Give a detailed account on the mechanism of nerve impulse, transmission in animals.
(b) Write short notes on:
 - (i) Brain.
 - (ii) Neuron.

(DZOO21)

ASSIGNMENT - 2
M.Sc. DEGREE EXAMINATION MARCH, 2023.
Second Year
Zoology
Paper V — ANIMAL PHYSIOLOGY
MAXIMUM : 30 MARKS
ANSWER ALL QUESTIONS

1. (a) Write an essay on excretion on animals.
(b) Write short notes on:
 - (i) Kidney.
 - (ii) Osmotic balance in animals.

 2. (a) Describe the various theories of muscle contraction.
(b) Write short notes on:
 - (i) Hormones.
 - (ii) Striated muscles.
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(DZOO22)

ASSIGNMENT - 1

M.Sc. DEGREE EXAMINATION, MARCH, 2023.

Second Year

Zoology

Paper VI — AQUACULTURE

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

1. (a) Give a detailed account on the criteria for the selection of a species for culture.
- (b) Write short notes on:
 - (i) Hypophysation.
 - (ii) Classification of aquaculture.

2. (a) Describe the breeding and culture of common carp.
- (b) Write short notes on:
 - (i) *Macrobrachium resenbergi*
 - (ii) Nursery ponds.

3. (a) Give a detailed account on the culture of air breathing fishes.
- (b) Write short notes on:
 - (i) *Lates calcarifer*.
 - (ii) *Penaeus monodon*.

(DZOO22)

ASSIGNMENT - 2
M.Sc. DEGREE EXAMINATION, MARCH, 2023.
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Zoology
Paper VI — AQUACULTURE
MAXIMUM : 30 MARKS
ANSWER ALL QUESTIONS

1. (a) Describe the sewage-fed fish culture.
 - (b) Write short notes on:
 - (i) Edible oysters.
 - (ii) Sea weeds.

 - 2 (a) Give a detailed account on the culture of ornamental fishes.
 - (b) Write short notes on:
 - (i) Cryopreservation.
 - (ii) Black spot disease.
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2(DZOO22)

(DZOO23)

ASSIGNMENT - 1

M.Sc. DEGREE EXAMINATION, MARCH, 2023.

Second Year

Zoology

Paper VII — PARASITOLOGY AND IMMUNOLOGY

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

1. (a) Give a detailed account on the biology and life cycle of *Balantidium coli*.
(b) Write short notes on:
 - (i) *Giaradia intestinalis*.
 - (ii) Symbiotic relationships.

2. (a) Describe the biology, life cycle and portals of entry of *Diphyllobothrium latum*.
(b) Write short notes on:
 - (i) *Echinococcus granulosus*.
 - (ii) *Schistosoma mansoni*.

3. (a) Describe the biology, life cycle and nature of infection of *Wuchereria bancrofti*.
(b) Write short notes on:
 - (i) *Dracunculus medinensis*.
 - (ii) *Ancylostoma duodenale*.

(DZOO23)

ASSIGNMENT - 2

M.Sc. DEGREE EXAMINATION, MARCH, 2023.

Second Year

Zoology

Paper VII — PARASITOLOGY AND IMMUNOLOGY

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

1. (a) What is immunology? Give a detailed account on the natural immunity.
- (b) Write short notes on:
 - (i) Antigens.
 - (ii) Overview of immunology.
2. (a) Describe the antigen-antibody interactions.
- (b) Write short notes on:
 - (i) Organs of immune system.
 - (ii) IgG.

(DZOO24)

ASSIGNMENT - 1
M.Sc. DEGREE EXAMINATION, MARCH, 2023.
Second Year
Zoology
Paper VIII — BIOTECHNOLOGY

MAXIMUM : 30 MARKS
ANSWER ALL QUESTIONS

1. (a) Give a detailed account on the importance and applications of biotechnology.
(b) Write short notes on:
 - (i) Definition of biotechnology.
 - (ii) Scope of biotechnology.
2. (a) What is the role of enzymes in gene cloning? Explain in detail.
(b) Write short notes on:
 - (i) r-DNA technology.
 - (ii) Vectors.
3. (a) Give a detailed account on the preparation and sterilization of media.
(b) Write short notes on:
 - (i) Maintenance of cultures.
 - (ii) Single cell cultures.

(DZOO24)

ASSIGNMENT - 2
M.Sc. DEGREE EXAMINATION, MARCH, 2023.
Second Year
Zoology
Paper VIII — BIOTECHNOLOGY

MAXIMUM : 30 MARKS
ANSWER ALL QUESTIONS

1. (a) Give a detailed account on the techniques of animal tissue culture.
(b) Write short notes on:
 - (i) Media for animal cell culture.
 - (ii) Applications of animal cell culture.

 2. (a) Give a detailed account on the industrial production of antibiotics.
(b) Write short notes on:
 - (i) Vaccines.
 - (ii) Enzymes.
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