

(DZOO21)

Assignment 1

M.Sc. DEGREE EXAMINATION,
DECEMBER 2020.

Second Year

Zoology

ANIMAL PHYSIOLOGY

MAXIMUM MARKS: 30

ANSWER ALL QUESTIONS

1. What is digestion? Give an account on the role of enzymes in digestion.
2. Write short notes on :
 - a) Minerals
 - b) Carbohydrates.
3. What is Respiration? Give a detailed account of respiration in animals.
4. Write short notes on :
 - a) Transport of gases
 - b) Circulatory system.
5. Describe the mechanism of nerve impulse transmission in animals.

(DZOO21)

Assignment 2

M.Sc. DEGREE EXAMINATION,
DECEMBER 2020.

Second Year

Zoology

ANIMAL PHYSIOLOGY

MAXIMUM MARKS: 30

ANSWER ALL QUESTIONS

1. Write short notes on :
 - a) Heart
 - b) Brain.
 2. Describe the ionic and osmotic balance in animals.
 3. Write short notes on :
 - a) excretion
 - b) formation of urine.
 4. What is the role of hormones in respiration? Explain.
 5. Write short notes on :
 - a) Types of muscles
 - b) Intercellular Communication.
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Assignment 1

M.Sc. DEGREE EXAMINATION,
DECEMBER 2020.

Second Year

Zoology

AQUACULTURE

MAXIMUM MARKS: 30

ANSWER ALL QUESTIONS

1. What is the criterion for the selection of species for culture?
2. Write short notes on
 - a) Hypophysation
 - b) Bundh breeding
3. Describe the design and construction of fish pond.
4. Write short notes on
 - a) Stocking ponds
 - b) Exotic fishes
5. Give an account on culture of chanos chanos.

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Assignment 2

M.Sc. DEGREE EXAMINATION,
DECEMBER 2020.

Second Year
Zoology

AQUACULTURE

MAXIMUM MARKS: 30

ANSWER ALL QUESTIONS

1. Write short notes on
 - a) Penaeus monodon
 - b) Air breathing fishes
 2. Give an account on sewage-fed fish culture.
 3. Write short notes on
 - a) Edible oysters
 - b) Sea weeds
 4. Describe the common diseases in culture ponds.
 5. Write short notes on
 - a) Androgens
 - b) Cryopreservation.
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Zoology

PARASITOLOGY AND IMMUNOLOGY

MAXIMUM MARKS: 30

ANSWER ALL QUESTIONS

1. Give a detailed account on morphology and life cycle of Trypanosoma gambiense.
2. Write short notes on
 - a) Giardia intestinalis
 - b) Entamoeba histolytica
3. Describe the biology, life cycle and nature of infection of Diphyllobothrium latum.
4. Write short notes on
 - a) Schistosoma mansoni
 - b) Opisthorchis sinensis
5. Give an account on biology and life cycle of Ancylostoma duodenale.

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Assignment 2

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Zoology

PARASITOLOGY AND IMMUNOLOGY

MAXIMUM MARKS: 30

ANSWER ALL QUESTIONS

1. Write short notes
 - a) Trichuris trichiura
 - b) Drawnwlus medinensis
 2. Give an account on structure and major class of antigens.
 3. Write short notes on
 - a) Overview of immunology
 - b) Acquired immunity
 4. Give an account on the organs of the immune system
 5. Write short notes on
 - a) IgG
 - b) Antigen
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Assignment 1

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Zoology

BIOTECHNOLOGY

MAXIMUM MARKS: 30

ANSWER ALL QUESTIONS

1. Give an account on the importance and applications of biotechnology.
2. Write short notes on
 - a) Different fields of biotechnology
 - b) Scope and overview of biotechnology
3. Give an account on vectors used in genetic engineering.
4. Write short notes on
 - a) Gene cloning
 - b) r-DNA technology
5. Give an account on cell suspension and single cell cultures.

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Assignment 2

M.Sc. DEGREE EXAMINATION,
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Second Year

Zoology

BIOTECHNOLOGY

MAXIMUM MARKS: 30

ANSWER ALL QUESTIONS

1. Write short notes on

- a) Callus culture
- b) Sterilization of media

2. Give a detailed account on applications of animal cell culture.

3. Write short notes on

- a) Techniques of animal tissue culture.
- b) Growth of animal cell lines in laboratory.

4. Give an account on the industrial production of alcohol.

5. Write short notes on

- a) Vaccines
- b) Antibiotics
