

(DZOO 21)

ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, JUNE 2022.
Second Year
Zoology
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) Vitamins
 - (ii) Minerals

2. (a) Describe the respiration and transport of gases in animals.
(b) Write short notes on:
 - (i) Respiratory pigments
 - (ii) Physiology of heart

3. (a) Describe the comparative account of nervous system.
(b) Write short notes on:
 - (i) Nerve impulse
 - (ii) Brain

(DZOO 21)

ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, JUNE 2022.
Second Year
Zoology
ANIMAL PHYSIOLOGY
MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

1. (a) Give a detailed account on ionic and osmotic balance in animals.
 - (b) Write short notes on
 - (i) Formation of urine
 - (ii) Excretion

2. (a) What is the role of hormones in reproduction? Explain
 - (b) Write short notes on:
 - (i) Muscle contraction
 - (ii) Functions of muscles

(DZOO 22)

ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, NOVEMBER 2022.
Second Year
Zoology
AQUACULTURE
MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

1. (a) Give an account on procurement of carp seed from natural waters.
(b) Write short notes on:
 - (i) Bundh breeding
 - (ii) Significance of aquaculture

2. (a) Describe the design and construction of a pond farm.
(b) Write short notes on:
 - (i) Exotic fishes
 - (ii) Nursery ponds

3. (a) Give a detailed account on the culture of Lates calcarifer.
(b) Write short notes on
 - (i) Air breathing fishes
 - (ii) Chanos chanos

(DZOO 22)

ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, NOVEMBER 2022.
Second Year
Zoology
AQUACULTURE
MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

1. (a) Give a detailed account on edible oysters
- (b) Write short notes on:
 - (i) Sea weeds
 - (ii) Pearl oysters

2. (a) Give an account on the culture of ornamental fishes.
- (b) Write short notes on:
 - (i) Androgenesis
 - (ii) Cryopreservation

(DZOO 23)

ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, JUNE 2022.
Second Year
Zoology
PARASITOLOGY AND IMMUNOLOGY
MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

1. (a) Give an account on biology, life cycle of Trypanosoma gambiense.
(b) Write short notes on:
 - (i) Entamoeba histolytica
 - (ii) Giardia

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

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

(DZOO 23)

ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, JUNE 2022.
Second Year
Zoology
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) Acquired immunity
 - (ii) Natural immunity

2. (a) Give an account on the organs of the immune system.
 - (b) Write short notes on
 - (i) IgG
 - (ii) Antigen

(DZOO 24)

ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, JUNE 2022.
Second Year
Zoology
BIOTECHNOLOGY
MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

1. (a) What is biotechnology? Give an account on the different fields of biotechnology.
(b) Write Short notes on
 - (i) Importance of biotechnology.
 - (ii) Overview of biotechnology.

2. (a) Write an account on the enzymes useful in gene cloning.
(b) Write Short notes on
 - (i) Vectors.
 - (ii) Tools and techniques of Recombinant DNA technology.

3. (a) Write an account on initiation and maintenance of cultures.
(b) Write short notes on
 - (i) Sterilization of media.
 - (ii) Cell Suspension.

(DZOO 24)

ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, JUNE 2022.
Second Year
Zoology
BIOTECHNOLOGY
MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

1. (a) Describe the techniques of animal tissue culture.
(b) Write short notes on
 - (i) Growth of animal cell lines.
 - (ii) Applications of animal cell culture.

2. (a) Give a detailed account on industrial production of alcohol.
(b) Write short notes on
 - (i) Enzymes.
 - (ii) Antibiotics.