

(DZOO21)

ASSIGNMENT - 1

M.Sc. (Second) DEGREE EXAMINATION, MAY – 2019

ZOOLOGY

Second Year

Animal Physiology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) Give an account on significance of vitamins in metabolism.
- b) Write short notes on
- i) Minerals
 - ii) Lipids
- Q2)** a) Give an account on physiology of heart.
- b) Write short notes on
- i) Transport of gases
 - ii) Respiratory pigments
- Q3)** a) Give an account on nervous system in animal groups.
- b) Write short notes on
- i) Nerve impulse
 - ii) Brain

(DZOO21)

ASSIGNMENT - 2

M.Sc. (Second) DEGREE EXAMINATION, MAY – 2019

ZOOLOGY

Second Year

Animal Physiology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) Give an account on excretion in animals.
- b) Write short notes on
- i) Ionic balance
 - ii) Formation of urine
- Q2)** a) Give an account on theories of muscle contraction.
- b) Write short notes on
- i) Hormones
 - ii) Functions of muscles.



(DZOO22)

ASSIGNMENT - 1

M.Sc. (Second) DEGREE EXAMINATION, MAY – 2019

Second Year

ZOOLOGY

Aquaculture

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) Give an account on criteria for the selection of a species for culture.
- b) Write short notes on
- i) Intensive culture
 - ii) Bundh breeding
- Q2)** a) Give an account on exotic fishes of India.
- b) Write short notes on
- i) Nursery pond
 - ii) *Macrobrachium rosenbergii*.
- Q3)** a) Give an account on culture of air breathing fishes.
- b) Write short notes on
- i) *Chanos chanos*
 - ii) *Penaeus mondon*

(DZOO22)

ASSIGNMENT - 2

M.Sc. (Second) DEGREE EXAMINATION, MAY – 2019

Second Year

ZOOLOGY

Aquaculture

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) Give an account on sewage – fed fish culture.
- b) Write short notes on
- i) Edible oysters
 - ii) Sea weeds
- Q2)** a) Write an account on common diseases in culture ponds.
- b) Write short notes on
- i) Gynogenesis
 - ii) Ornamental fish



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ASSIGNMENT - 1

M.Sc. (Second) DEGREE EXAMINATION, MAY – 2019

ZOOLOGY

Second Year

Parasitology and Immunology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) Give an account on morphology and life cycle of *Trypanosoma gambiense*.
- b) Write short notes on
- i) *Balantidium coli*
 - ii) Symbiotic relationship
- Q2)** a) Describe the biology, Life cycle and Portals of entry of *Schistosoma mansoni*.
- b) Write short notes on
- i) *Diphyllobothrium latum*.
 - ii) *Opisthorchis sinensis*
- Q3)** a) Give an account on biology, life cycle and nature infection of *Ancylosoma duodenale*.
- b) Write short notes on
- i) Nature of infection of *Dracunculus medinensis*
 - ii) Life cycle of *Trichuris trichura*.

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ASSIGNMENT - 2

M.Sc. (Second) DEGREE EXAMINATION, MAY – 2019

ZOOLOGY

Second Year

Parasitology and Immunology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

Q1) a) Give an account on structure and major class of antigens.

b) Write short notes on

i) Natural immunity

ii) Acquired immunity

Q2) a) Give an account on structure and properties of IgG.

b) Write short notes on

i) Coomb's test

ii) Organs of immune system



(DZOO24)

ASSIGNMENT - 1

M.Sc. (Second) DEGREE EXAMINATION, MAY – 2019

Second Year

ZOOLOGY

Biotechnology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) Give an account on the importance and application of biotechnology.
b) Write short notes on
- i) Definition of biotechnology
 - ii) Biotechnology in engineering
- Q2)** a) What is the role of enzymes in gene cloning? Explain.
b) Write short notes on
- i) Vectors
 - ii) r - DNA
- Q3)** a) Give an account on initiation and maintenance of cultures.
b) Write short notes on
- i) Sterilization of media
 - ii) Cell suspension

(DZOO24)

ASSIGNMENT - 2

M.Sc. (Second) DEGREE EXAMINATION, MAY – 2019

Second Year

ZOOLOGY

Biotechnology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) Describe the techniques of animal tissue culture.
- b) Write short notes on
- i) Culture media
 - ii) Growth of animal cell lines
- Q2)** a) Give an account on production of enzymes and other chemicals.
- b) Write short notes on
- i) Antibiotics
 - ii) Vaccines

