

ASSIGNMENT - 1, DEC - 2016.

M.Sc. (FINAL) SECOND YEAR DEGREE

ZOOLOGY

PAPER- V — ANIMAL PHYSIOLOGY

Maximum : 30 MARKS

Answer ALL questions.

- 1) Give an account on Carbohydrate and Protein metabolism.

 - 2) Write short notes on:
 - i) Fat soluble vitamins
 - ii) Mineral role in metabolism

 - 3) Explain physiology of heart

 - 4) Write short notes on:
 - i) Human lungs
 - ii) Respiratory pigments.

 - 5) Give notes on mechanism of nerver impulse transmission in animals.
-

ASSIGNMENT - 2, DEC - 2016.

M.Sc. (FINAL) SECOND YEAR DEGREE

ZOOLOGY

PAPER- V — ANIMAL PHYSIOLOGY

Maximum : 30 MARKS

Answer ALL questions.

- 1) Write short notes on:
 - i) Human brain structure.
 - ii) Synaptic function.

 - 2) Describe osmotic regulation in animals.

 - 3) Write short notes on:
 - i) Hibernation
 - ii) Ultra filtration in kidney

 - 4) Give detailed notes on mechanism of hormone action

 - 5) Write short notes on:
 - i) Types of muscles
 - ii) Hormones role in intercellular communication
-

ASSIGNMENT - 1, DEC - 2016.

M.Sc. (FINAL) SECOND YEAR DEGREE

ZOOLOGY

PAPER- VI — AQUACULTURE

Maximum : 30 MARKS

Answer ALL questions.

- 1) How do you procure carp seed from natural waters.

 - 2) Write short notes on:
 - i) Bundh breeding
 - ii) Significance of aquaculture.

 - 3) Explain the management of nursery ponds

 - 4) Write short notes on:
 - i) Breeding of common carp.
 - ii) Culture of giant prawn.

 - 5) Describe the culture of sea bass.
-

ASSIGNMENT - 2, DEC - 2016.

M.Sc. (FINAL) SECOND YEAR DEGREE

ZOOLOGY

PAPER- VI — AQUACULTURE

Maximum : 30 MARKS

Answer ALL questions.

- 1) Write short notes on:
 - i) *Penaeus monodon*.
 - ii) Milk fish.

 - 2) Explain the culture of sea weeds.

 - 3) Write short notes on :
 - i) Sewage fed fish culture.
 - ii) Pearl oysters

 - 4) Give an account of common diseases in culture ponds
.

 - 5) Write short notes on:
 - i) Hybridization of fish.
 - ii) Polyploidy
-

ASSIGNMENT - 1, DEC - 2016.

M.Sc. (FINAL) SECOND YEAR DEGREE

ZOOLOGY

PAPER- VII — PARASITOLOGY AND IMMUNOLOGY

Maximum : 30 MARKS

Answer ALL questions.

- 1) Write the life cycle of *Entamoeba histolytica*.

 - 2) Write short notes on:
 - i) *Trypanosoma gambiense*
 - ii) *Balantidium coli*

 - 3) Give an account on biology, life cycle and portals of entry of *Echinococcus granulosus*

 - 4) Write short notes on:
 - i) *Diphyllobothrium latum*
 - ii) *Opisthorchis sinensis*.

 - 5) Give an account on life cycle and nature of infection of *Wucheraria bancrofti*.
-

ASSIGNMENT - 2, DEC - 2016.

M.Sc. (FINAL) SECOND YEAR DEGREE

ZOOLOGY

PAPER- VII — PARASITOLOGY AND IMMUNOLOGY

Maximum : 30 MARKS

Answer ALL questions.

- 1) Write short notes on:
 - i) Ancylostoma duodenale.
 - ii) Trichuris trichiura.

 - 2) What is Antigen? Explain the structure and major class of antigens.

 - 3) Write short notes on:
 - i) Natural immunity.
 - ii) Overview of immunology

 - 4) Explain antigen – antibody interactions

 - 5) Write short notes on:
 - i) Immunoglobulin G and Immunoglobulin E
 - ii) Organs of the immune system
-

ASSIGNMENT - 1, DEC - 2016.

M.Sc. (FINAL) SECOND YEAR DEGREE

ZOOLOGY

PAPER- VIII — BIOTECHNOLOGY

Maximum : 30 MARKS

Answer ALL questions.

- 1)** Write different fields of Biotechnology and applications of Biotechnology.
 - 2)** Write the scope and overview of Biotechnology.
 - 3)** Write the techniques of Animal tissue culture.
 - 4)** What is initiation? Write the maintenance of Callus culture.
 - 5)** What are the enzymes involved in Gene cloning and Explain.
-

ASSIGNMENT - 2, DEC - 2016.

M.Sc. (FINAL) SECOND YEAR DEGREE

ZOOLOGY

PAPER- VIII — BIOTECHNOLOGY

Maximum : 30 MARKS

Answer ALL questions.

- 1) What is media? Write the preparation and sterilization of media.
 - 2) Explain production of Alcohol and Enzymes and other chemicals in Biotechnology.
 - 3) Write short notes on:
 - i) Vectors used in Genetic Engineering
 - ii) Growth of Animal cell lines in laboratory
 - 4) Give a detailed account on production of Antibiotics and Vaccines.
 - 5) Write short notes on:
 - i) Applications of r DNA technology
 - ii) Application of Animal cell culture
-