



TAMIL NADU OPEN UNIVERSITY
Chennai - 15
School of Science

HOME / SPOT ASSIGNMENT

Programme Code No : 284

Programme Name : I M.Sc., Zoology

Course Code & Name: MZO11- Functional Morphology, Physiology, Phylogeny & Palaeontology of Invertebrate and Chordate

Batch : AY 2019-20

No. of Assignment : One Assignment for Each 2 Credits

Maximum CIA marks: 25 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max :25 marks

Answer any one of the question not exceeding 1000 words

- 1) Explain the symmetry in animal organization in invertebrates.
- 2) Detail account of the circulation in arthropods and molluscs.
- 3) Comment on the followings;
 - a) Phylogeny of invertebrates
 - b) Pheromones in invertebrates

ASSIGNMENT – 2

Max :25 marks

Answer any one of the question not exceeding 1000 words

- 1) Detail account of invertebrate larval forms and their phylogenetic significance.
- 2) Discuss the alimentary canal and associated glands in vertebrates.
- 3) Explain the evolution of kidneys.

ASSIGNMENT – 3

Max :25 marks

Answer any one of the question not exceeding 1000 words

- 1) Give an account of evolution of metamerism.
- 2) Describe the evolutionary significance of coelom.
- 3) Explain the significance of nervous system in annelids.





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Programme Code No : 284
Programme Name : I M.Sc. Zoology
Course Code & Name: MZO-12, Genetics
Batch : AY 2019-20
No.of Assignment : One Assignment for Each 2 Credits
Maximum CIA marks: 25 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max :25 marks

Answer any one of the question not exceeding 1000 words

- 1) Give a detailed account on experimental evidences of DNA as genetic material.
- 2) Explain Mendelism. Describe on how the law of segregation and law of independent assortment came into existence.
- 3) Describe ABO Blood groups in man and its inheritance.

ASSIGNMENT – 2

Max :25 marks

Answer any one of the question not exceeding 1000 words

- 1) What is chromosomal aberration? Elaborate on the different types of chromosomal aberration.
- 2) Explain in detail about conjugation in bacteria and transformation in bacteria. Differentiate between conjugation and transformation.
- 3) Define inherited disorder. Give a detailed account on the causes, inheritance and consequences of sickle cell anaemia and Thalassaemia.

ASSIGNMENT – 3

Max :25 marks

Answer any one of the question not exceeding 1000 words

1. Give a detailed account on oncogenes and cancer.
2. Elaborate on the Genetics of Human metabolic disorders and diseases.
3. Describe one gene one enzyme theory and one gene one polypeptide theory.



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Programme Code No : 284
Programme Name : M.Sc. Zoology
Course Code & Name: I MZO-13, Cell and Molecular Biology
Batch : AY 2019-20
No. of Assignment : One Assignment for Each 2 Credits
Maximum CIA marks: 25 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max :25 marks

Answer any one of the question not exceeding 1000 words

1. Elaborate on the cellular and structural organization of prokaryotes and Eukaryotes.
2. Give a detailed account on the ultra structure and functions of plasma membrane.
3. Describe the structure and function of Golgi apparatus, Endoplasmic Reticulum and ribosome.

ASSIGNMENT – 2

Max :25 marks

Answer any one of the question not exceeding 1000 words

1. Elaborate on the steps involved in Krebs cycle and write down its significance.
2. Give a detailed account on the membrane, biochemical, nuclear and chromosomal changes in cancer cells.
3. Explain in detail about cell cycle and its significance.

ASSIGNMENT - 3

Max :25 marks

Answer any one of the question not exceeding 1000 words

- 1) Elaborate on the DNA Structure and function with emphasis on Watson and crick model and DNA replication.
- 2) Give a detailed account on Protein synthesis.
- 3) Describe the steps involved in kreb's cycle and its significance.



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Programme Code No : 284
Programme Name : I M.Sc. Zoology
Course Code & Name : MZO-14, Animal Physiology and Biochemistry
Batch : AY 2019-20
No. of Assignment : One Assignment for Each 2 Credits
Maximum CIA marks: 25 (Average of Total No. of Assignments)

ASSIGNMENT - 1

Max :25 marks

Answer any one of the question not exceeding 1000 words

1. Elaborate on the mechanism of endocrine secretion and functions.
2. Give a detailed account on transmission of nerve impulse and reflex action.
3. Describe the molecular structure and chemical composition of muscle fibre and physiology of muscle contraction.

ASSIGNMENT - 2

Max :25 marks

Answer any one of the question not exceeding 1000 words

1. Describe the migration of birds and fishes.
2. Elaborate on the structure, properties and functions of carbohydrates and proteins.
3. Give a detailed account on physiology of vision in man.

ASSIGNMENT - 3

Max :25 marks

Answer any one of the question not exceeding 1000 words

1. Classify the enzymes, write down their properties and describe the mechanism of enzyme action.
2. Give a detailed account on classification, structure, properties and functions of Lipids.
3. Explain Biological oxidation, Redox potential and oxidative phosphorylation.



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Programme Code No : 284
Programme Name : IM.Sc. Zoology
Course Code & Name : MZO-15, Economic Zoology
Batch : AY 2019-20
No. of Assignment : One Assignment for Each 2 Credits
Maximum CIA marks: 25 (Average of Total No. of Assignments)

ASSIGNMENT - 1

Max :25 marks

Answer any one of the question not exceeding 1000 words

1. Give a detailed account on Aquaculture, its principle and scope.
2. Elaborate on beneficial and harmful insects.
3. Explain the basic principles of different aquaculture system with special emphasis on polyculture and integrated farming.

ASSIGNMENT - 2

Max :25 marks

Answer any one of the question not exceeding 1000 words

1. Elaborate on the life history and rearing of *Bombyx mori*.
2. Give a detailed account on Apiculture.
3. Give a detailed account on extraction of silk from silk worm.

ASSIGNMENT - 3

Max :25 marks

Answer any one of the question not exceeding 1000 words

1. Describe pearl culture. Explain how artificial pearls are made.
2. Elaborate on the rearing and disease management of poultry farming.
3. Give a detailed account on poultry farming.