



TAMIL NADU OPEN UNIVERSITY
Chennai - 15
School of Sciences

HOME / SPOT ASSIGNMENT

Programme Code No : 284
Programme Name : I M.Sc., Zoology
Course Code & Name: MZON-11 structure and functions of invertebrates
Batch : AY 2021-22
No. of Assignment : One Assignment for Each 2 Credits
Maximum CIA marks: 15 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max:15 marks

Answer any one of the question not exceeding 1000 words

- 1) Give a detail account of various types of symmetrical systems in invertebrates.
- 2) Explain the evolution of coelom and types of coelom present in invertebrates.
- 3) Discuss the hydrostatic movements of the following phyla
 - i. Coelenterata
 - ii. Annelida
 - iii. Echinodermata

ASSIGNMENT – 2

Max:15 marks

Answer any one of the question not exceeding 1000 words

- 1) Explain the structure and functions of respiratory pigments in invertebrates.
- 2) Discuss the concept of osmoregulation in invertebrates.
- 3) Give a detail account of process of excretion in invertebrates.





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Programme Code No : 284

Programme Name : I M.Sc. Zoology

Course Code & Name: MZON-12, Comparative Anatomy of Chordata and Vertebrata

Batch : AY 2021-22

No.of Assignment : One Assignment for Each 2 Credits

Maximum CIA marks: 15 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max :15 marks

Answer any one of the question not exceeding 1000 words

- 1) Comment on the followings.
 - a) Concept of protochordata.
 - b) Nature of vertebrate morphology.
- 2) Explain the origin and classification of vertebrates.
- 3) Explain the importance of the study of vertebrate morphology.

ASSIGNMENT – 2

Max :15 marks

Answer any one of the question not exceeding 1000 words

- 1) Give an detail account of general structure and functions of exoskeleton in vertebrates.
- 2) Explain the evolution of the heart.
- 3) Detail account of comparative anatomy of the nervous system.



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Programme Code No : 284
Programme Name : I M.Sc. Zoology
Course Code & Name: MZON-13, Genetics
Batch : AY 2021-22
No. of Assignment : One Assignment for Each 2 Credits
Maximum CIA marks: 15 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max :15 marks

Answer any one of the question not exceeding 1000 words

- 1) Give a detailed account of DNA as a genetic material and its experimental evidences.
- 2) Explain the concept of DNA damages and its repair mechanism.
- 3) Illustrate the concept of sexduction.

ASSIGNMENT – 2

Max :15 marks

Answer any one of the question not exceeding 1000 words

- 1) Discuss the polygenic inheritance in polygene concept.
- 2) Describe the various types of syndromes present in humans.
- 3) Detail account of human metabolic disorders.



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Programme Code No : 284
Programme Name : I M.Sc. Zoology
Course Code & Name : MZON-14, Cell and Molecular Biology
Batch : AY 2021-22
No. of Assignment : One Assignment for Each 2 Credits
Maximum CIA marks: 15 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max:15 marks

Answer any one of the question not exceeding 1000 words

- 1) Give a detailed account on prokaryotic and eukaryotic cells.
- 2) Explain the ultra structure of the plasma membrane and its functions.
- 3) Discuss about cell adhesion and intra cellular spaces in eukaryotic cell.

ASSIGNMENT – 2

Max:15 marks

Answer any one of the question not exceeding 1000 words

- 1) Explain briefly about the cell organelles and its functions.
- 2) Comment on the followings;
 - a) Glycolysis
 - b) Kerbs cycle
- 3) Explain detailed about the nucleus and nuclear envelope.



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Programme Code No : 284
Programme Name : IM.Sc. Zoology
Course Code & Name: MZON-15, Animal Physiology
Batch : AY 2021-22
No. of Assignment : One Assignment for Each 2 Credits
Maximum CIA marks: 15 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max:15 marks

Answer any one of the question not exceeding 1000 words

- 1) Discuss the plasma function and blood volume regulations.
- 2) Explain about the comparative anatomy of heart in vertebrates.
- 3) Explain the various types of sensory organs present in chordates.

ASSIGNMENT – 2

Max:15 marks

Answer any one of the question not exceeding 1000 words

- 1) Explain the principle and significance of myogenic heart.
- 2) Explain the various types of accessory respiratory organs present in vertebrates.
- 3) Discuss the mechanism of transport of gases and gases exchange in vertebrates.



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Programme Code No : 284
Programme Name : IM.Sc. Zoology
Course Code & Name: MZON-16, Biochemistry
Batch : AY 2021-22
No. of Assignment : One Assignment for Each 2 Credits
Maximum CIA marks: 15 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max:15 marks

Answer any one of the question not exceeding 1000 words

- 1) Explain the structure and functional significance of carbohydrates.
- 2) Detail account of proteins and its classification.
- 3) Discuss the molecular structure and properties of DNA and RNA.

ASSIGNMENT – 2

Max:15 marks

Answer any one of the question not exceeding 1000 words

- 1) Explain about the biosynthesis of purines and pyrimidine.
- 2) Comment on the following;
 - a) Electron transport chain
 - b) Oxidative phosphorylation
- 3) Explain briefly about the process of ammonia and urea cycle in vertebrates.



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Programme Code No : 284

Programme Name : IM.Sc. Zoology

Course Code & Name : MZON-17, Economic Zoology

Batch : AY 2021-22

No. of Assignment : One Assignment for Each 2 Credits

Maximum CIA marks: 15 (Average of Total No. of Assignments)

ASSIGNMENT – 1

Max:15 marks

Answer any one of the question not exceeding 1000 words

- 1) Explain detailed about the beneficial and harmful insects.
- 2) Comment on the following
 - a) Pest of rice
 - b) Pest of sugarcane
 - c) Pest of oil seed
- 3) Explain briefly about the disease management in poultry forms

ASSIGNMENT – 2

Max:15 marks

Answer any one of the question not exceeding 1000 words

- 1) Explain detailed about the prawn culture.
- 2) Explain briefly about the Apiculture and development of apiary in India.
- 3) Explain the various types of honey bees and its beneficial products.
