



TAMIL NADU OPEN UNIVERSITY
Chennai - 15
School of Sciences

HOME / SPOT ASSIGNMENT

Programme Code No : 284
Programme Name : II M.Sc., Zoology
Course Code & Name : Developmental Biology and Immunology (MZO-21)
Batch : AY 2020-21
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 molecular events of fertilization.
- 2) Detail account of the development of gametes.
- 3) Comment on the followings;
 - a) Morphogenetic movements b) Formation of extra embryonic membranes
 - c) Totipotency and pluripotency

ASSIGNMENT – 2

Max :25 marks

Answer any one of the question not exceeding 1000 words

- 1) Detail account of the regenerative ability in various invertebrates and vertebrates.
- 2) Elaborate the cellular immune system.
- 3) Explain the structure and functions of secondary lymphoid organs.

ASSIGNMENT – 3

Max :25 marks

Answer any one of the question not exceeding 1000 words

- 1) Detail account of tumour immunology.
- 2) Discuss – antigen and antibody.
- 3) Explain the MHC and autoimmune diseases.



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Programme Code No : 284
Programme Name : II M.Sc. Zoology
Course Code & Name: Biophysics, Biostatistics and Computer Application (MZO-22)
Batch : AY 2020-21
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) Detailed account of the natural radiations.
- 2) Explain atomic absorption and plasma emission spectroscopy.
- 3) Explain the principles and applications of electrophoresis.

ASSIGNMENT – 2

Max :15 marks

Answer any one of the question not exceeding 1000 words

- 1) Explain the methods of data processing, classification and tabulations.
- 2) Discuss the immune-electrophoresis techniques and its applications.
- 3) Draw a Pie Chart to represent the following data about Family's Monthly Expenditure:

Type of Commodity	Expenditure (in Rs.)
Food	300
Rent	200
Clothing	125
Education	110
Savings	90
Miscellaneous	75

ASSIGNMENT – 3

Max :15 marks

Answer any one of the question not exceeding 1000 words

1. Detail account of the computer application in biology.

2. Calculate the Regression Equations of X on Y and Y on X from the following data and estimate X. when Y = 26. Also calculate the coefficient of correlation

X	10	12	13	17	18	20	24	30
Y	5	6	7	9	13	15	20	21

3. Calculate Mean, Median and Mode of the following data and verify empirical relation:

Class interval	3-4	4-5	5-6	6-7	7-8	8-9	9-10
Frequency	83	27	25	50	75	38	18



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Programme Code No : 284
Programme Name : M.Sc. Zoology
Course Code & Name: II MZO-23, Biotechnology & Microbiology
Batch : AY 2020-21
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. Detail account of the gene cloning strategies.
2. Give a detailed account on DNA sequencing and DNA finger printing.
3. Discuss the principle and applications of PCR.

ASSIGNMENT – 2

Max :15 marks

Answer any one of the question not exceeding 1000 words

1. Write down the applications of biotechnology in medicine and agriculture.
2. Give a detailed account on the bacterial culture techniques.
3. Explain the causative agent's mode of transmission and treatment of AIDS.

ASSIGNMENT – 3

Max :15 marks

Answer any one of the question not exceeding 1000 words

- 1) Elaborate on the causative agents mode of transmission control and treatment of Polio.
- 2) Detail account on the causative agents mode of transmission control and treatment of Tuberculosis.
- 3) Elaborate on the causative agents mode of transmission control and treatment of Cholera.



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Programme Code No : 284
Programme Name : II M.Sc. Zoology
Course Code & Name : MZO-24, Aquaculture
Batch : AY 2020-21
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. Elaborate on the scope of aquaculture in India.
2. Explain the aquaculture system.
3. Detail account of the integrated farming.

ASSIGNMENT – 2

Max :25 marks

Answer any one of the question not exceeding 1000 words

1. Detail account of disease management in aquaculture.
2. Elaborate on various important parameters involved in aquaculture.
3. Give a detailed account on oyster culture.

ASSIGNMENT – 3

Max :25 marks

Answer any one of the question not exceeding 1000 words

1. Detail account on marketing of fish products.
2. Elaborate on the canning and freezing of fish products.
3. Explain the common species of ornamental fish culture.



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Programme Code No : 284
Programme Name : II-M.Sc. Zoology
Course Code & Name: MZO-25, Environmental Biology and Evolution
Batch : AY 2020-21
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. Elaborate on the biogeochemical cycles.
2. Explain the nature and flux of energy through communities.
3. Give a detailed account on the adaptation of coastal ecosystem.

ASSIGNMENT – 2

Max :15 marks

Answer any one of the question not exceeding 1000 words

1. Elaborate on the energy resources.
2. Give a detailed account on the solid waste and industrial waste management.
3. Explain the theory of evolution.

ASSIGNMENT – 3

Max :15 marks

Answer any one of the question not exceeding 1000 words

1. Explain the isolation and isolating mechanism of evolution.
2. Elaborate on the genetic evolution.
3. Give a detailed account on mimicry