

TAMIL NADU OPEN UNIVERSITY

School of Science

SPOT ASSIGNMENT–AY 2019 -20

III Year B.Sc., Zoology (Batch AY -2017-18)

NOTE: Part A Contains 3 Questions and will carry 5 Marks each, Part B Contain 1Question and will carry 10 Marks. Students are requested to write 150 words and should not exceed 2 pages each in Part A, 300 words and should not exceed 4 pages in Part B.

Course Code: BZOO3-3

Course Title: Cell Biology

(Total Marks=25)

Part-A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Differentiate SEM and TEM.
2. Draw the ultra structure of animal cell.
3. Comment on the theories of cell membrane structure.

Part-B- Long Answer Questions

Answer the following question

(1 X 10 = 10 Marks)

4. Explain about the cell division.

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Course Code: BZOO3-4

Course Title: Genetics and Evolution

(Total Marks=25)

Part-A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Describe the Mendelian laws.
2. Comment on the significance of crossing over.
3. Write about the fine structure of gene?

Part-B- Long Answer Questions

Answer the following question

(1 X 10 = 10 Marks)

4. Explain about the evolution of man.

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Course Code: BZOO3-5

Course Title: Developmental Biology and Immunology

(Total Marks=25)

Part-A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Describe the mechanism of fertilization.
2. What is the significance of cleavage?
3. Write about the embryonic membrane?

Part-B- Long Answer Questions

Answer the following question

(1 X 10 = 10 Marks)

4. Detail account of immunoglobulin

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Course Code: BZOO3-6

Course Title: Animal Physiology

(Total Marks=25)

Part-A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Describe the digestive enzymes and their role in digestion.
2. What is Bohr and Haldane effect?
3. Write about the osmoregulators?

Part-B- Long Answer Questions

Answer the following question

(1 X 10 = 10 Marks)

4. Explain the structure, secretions and functions of endocrine glands

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Course Code: BZOO3-7

Course Title: Environmental Biology and Biotechnology

(Total Marks=25)

Part-A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Explain the sedimentary cycle.
2. Write about the ecological succession?
3. Comment on the environmental ethics and laws?

Part-B- Long Answer Questions

Answer the following question

(1 X 10 = 10 Marks)

4. Explain the fundamentals of animal cell culture.