TAMIL NADU OPEN UNIVERSITY

Chennai - 15

School of Sciences

Department of Botany

HOME ASSIGNMENT

Programme Code No : **1183**

Programme Name : **B.Sc. Botany- 3rd Year [Semester -5]**

Course Code & Name : **BBOTS-51 & Cell Biology, Genetics and Plant Breeding**

Batch : **2021-22**

No. of Assignments : **2 [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 following three questions in 1000 words

1) Discuss in details about the cell organelles.
2) Enumerate the importance of cell theory and cellcycle.
3) Explain the mechanism of ATP synthesis from mitochondria.

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Programme Code No : **1183**

Programme Name : **B.Sc. Botany- 3rd Year [Semester -5]**

Course Code & Name : **BBOTS-52 & Molecular Biology and Genetic Engineering**

Batch : **2021-2022**

No. of Assignments : **2 [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 following three questions in 1000 words

1) Give a detailed account on the Chloroplast DNA.
2) Brief out the importance of central dogma theory.
3) Explain the mechanism of gene regulation in prokaryotes.

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Programme Code No : **1183**

Programme Name : **B.Sc. Botany- 3rd Year [Semester -5]**

Course Code & Name : **BBOTS-53 & Biochemistry and Nanobiotechnology**

Batch : **2021-22**

No. of Assignments : **2 [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 following three questions in 1000 words

1) Explain in detail the three dimensional structure of Proteins.
2) Determination of the Michaelis-menten equation and Line weaver-Burk plots.
3) Write notes on Amino acids and lipids.

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ASSIGNMENT-2

Max: 15 Marks

Answer any ONE of the following three questions in 1000 words

1) Discuss about the nanobiotechnology and its applications.

2) Define quantum dots and surface interaction of nanoparticle.

3) Synthesizing of Nanoparticles production by micro-organisms and Plants.

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ASSIGNMENT-2

Max: 15 Marks

Answer any ONE of the following three questions in 1000 words

1) Elucidate the role of nucleus in a plant cell.

2) Describe in detail about seven contrasting traits of Mendel's theory in *Pisum sativum*.

3) Explain in detail about crop improvement.

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ASSIGNMENT-2

Max: 15 Marks

Answer any ONE of the following three questions in 1000 words

1) Write a detailed note on different blotting techniques.

2) Describe in detail about the damage and repair of DNA.

3) Explain in detail about Genetically modified plants.

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