



TAMIL NADU OPEN UNIVERSITY

Chennai - 15
School of Science

HOME / SPOT ASSIGNMENT

Programme Code No :183
Programme Name :B.Sc., Botany Third Year
Course Code & Name : **BBOT31** Cell Biology and Genetics
Batch : AY 2019-2020
No.of Assignment : One Assignment for Each 2 Credits (Ex. 6 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 detailed account on ultra structure of plant cell wall
2. Write about membrane bound organelles
3. Explain mitosis cell division

ASSIGNMENT - 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

- 1) Explain - Cell cycle - different phases and development
- 2) Write structure and function of chloroplast
- 3) Write about Monohybrid ratio and hybrid ration wit suitable example

ASSIGNMENT - 3

Max : 25 marks

Answer any one of the question not exceeding 1000 words

- 1) Describe reduction division with diagrams
- 2) Give an account linkage and crossing over with examples
- 3) Outline the structure of DNA Watson and crick model

ASSIGNMENT - 4

Answer any one of the question not exceeding 1000 words

1. Write structure and function of Nucleus
2. Describe Chromosomal mapping
3. Write about DNA replication



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Programme Code No :183
Programme Name :B.Sc., Botany Third Year
Course Code & Name : **BBOT32** Plant Physiology
Batch : AY 2019-2020
No.of Assignment : One Assignment for Each 2 Credits (Ex. 6 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 absorption of water with diagrams
2. Write about Dark reaction
3. Explain Nitrate reductase action

ASSIGNMENT - 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Explain –Ascent of sap with theories
2. Write Electron transport chain
3. Write about Beta oxidation

ASSIGNMENT - 3

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Describe function of Auxin with example
2. Give an account on Respiration
3. Outline the fruit ripening

ASSIGNMENT - 4

Answer any one of the question not exceeding 1000 words

1. Transpiration explain
2. Seed dormancy - narrate
3. Photoperiodism Give an account



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Programme Code No :183
Programme Name :B.Sc., Botany Third Year
Course Code & Name : **BBOT33** Ecology and Forestry
Batch : AY 2019-2020
No.of Assignment : One Assignment for Each 2 Credits (Ex. 6 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. Write about the components of Ecosystem
2. Write about Ecological groups and its adaptations
3. Explain causes and sources of Environmental pollution

ASSIGNMENT - 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Give the Methods of studying vegetation
2. Write about air pollution
3. Describe temperate forests

ASSIGNMENT - 3

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Describe Ecological pyramids
2. Give an account on temperate forest
3. Outline the Silviculture technique

ASSIGNMENT - 4

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Bio-Geo Chemical Cycle – Explain
2. Write about conifer and Tundra forests
3. Urban Forests - Explain



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Programme Code No :183
Programme Name :B.Sc., Botany Third Year
Course Code & Name : **BBOT34** Cell Biology and Genetics
Batch : AY 2019-2020
No.of Assignment : One Assignment for Each 2 Credits (Ex. 6 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) Write about the Carbohydrates - Classification and Properties
- 2) Describe Amino Acids - Classification, Structure and Properties
- 3) Explain Mechanism of enzyme – Action (Lock and key, Induced – Fit Models)

ASSIGNMENT - 2

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Give an account on Proteins - Classification primary, secondary and Tertiary structures
2. Write about air Nomenclature, properties and classification of enzymes
3. Describe the Cloning Vectors

ASSIGNMENT - 3

Max : 25 marks

Answer any one of the question not exceeding 1000 words

1. Outline the Classification of Lipids - Simple, Compounds and derived Lipids
2. Write about the Application of Genetic Engineering
3. Explain Protoplasmic Fusion in detail

ASSIGNMENT - 4

ax : 25 marks

Answer any one of the question not exceeding 1000 words

1. Gene cloning technology Give account
2. Tissue culture concepts and examples
3. Somatic embryogenesis - explain