



TAMILNADU OPEN UNIVERSITY

Chennai - 15
School of Science
Department of Botany

ASSIGNMENT - 1

Programme Code No	:283
Programme Name	:M.Sc., Botany
Course Code & Name	:MBOT-11 Cryptogams
Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Write about the phylogeny of Cycadophyta and Chlorophyta.
2. Explain the medicinal importance of Algae
3. Outline the industrial importance of Algae
4. Write about Reproduction in *Nostoc*

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

- 1) Narrate Classification of Algae by F.E. Fritsch
- 2) Give a detailed account on Life cycle of Phaeophyceae and Cyanophyceae.
- 3) Outline the Morphology and life cycle of *IPolysiphonia*.



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ASSIGNMENT - 2

Programme Code No	:283
Programme Name	:M.Sc., Botany
Course Code & Name	:MBOT-11 Cryptogams
Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Write about Phylogeny of Fungi.
2. Explain Hereothallism in detail
3. Outline the classification of Lichens
4. Lichens are Pollution indicators - Describe

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Sketch the classification of Fungi
2. Outline the host – parasite interaction.
3. .Give a detailed account on Mushroom Cultivation



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ASSIGNMENT - 3

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Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Write about salient features of Bryophytes.
2. Classification of Bryophytes by Watson
3. Give an account on Salient features of Pteridophytes
4. Write about Gametophytic evolution in Bryophyta

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Give an account on reproduction in Bryophytes
2. Write about morphology and reproduction of *Riccia*
3. Outline the Morphology and life cycle of *Isoetes*.



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ASSIGNMENT - 1

Programme Code No	:283
Programme Name	:M.Sc., Botany
Course Code & Name	:MBOT-12 Microbiology and Immunology
Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Explain the concepts of microbiology.
2. Explain the role microorganism in food spoilage
3. Write about Endospores
4. Give an account on mycotoxins

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Write about Electron microscope and its principles.
2. Give a detailed account on sewage treatment.
3. Outline the uses of bacteria in medicine.



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ASSIGNMENT - 2

Programme Code No	:283
Programme Name	:M.Sc., Botany
Course Code & Name	:MBOT-12 Microbiology and Immunology
Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Write about viroids and prions.
2. Describe the cultivation of virus
3. Write the Classification of Virus
4. Give an account on Bacteriophages

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Write about Electron microscope and its principles.
2. Give a detailed account on sewage treatment.
3. Describe Life Cycle of CaMV



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ASSIGNMENT - 3

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Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Write about innate and acquired immunity.
2. Give an account on monoclonal antibody
3. Write about immunoelectrophoresis
4. Describe vaccines and its action

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Write about Lymphocytes of T & B.
2. Give a detailed account on Ag-Ab reaction.
3. Describe immunoglobulins and its types and function.



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Programme Code No	:283
Programme Name	:M.Sc., Botany
Course Code & Name	:MBOT-13 Gymnosperms and Palaeobotany
Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Write notes on Salient features of Gymnosperms.
2. Sketch the Classification of Gymnosperms by Sporne.
3. Explain Origin of Land Plants
4. Give and account on Rhynea

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Write detailed account of Ginkgo.
2. Describe Geological Time scale.
3. Give detailed account on Fossilization methods.



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ASSIGNMENT - 2

Programme Code No	:283
Programme Name	:M.Sc., Botany
Course Code & Name	:MBOT-13 Gymnosperms and Palaeobotany
Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Write notes on morphology of Cycadales and Ginkgoale.
2. Give general account on Coniferales and Bennettitales
3. Explain incrustation
4. Give and account on Coal balls

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Write detailed account of Ephedra
2. Describe role fossil in excavations.
3. Give detailed account on reproduction in Cycadales and bennettitales.



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ASSIGNMENT - 1

Programme Code No	:283
Programme Name	:M.Sc., Botany
Course Code & Name	:MBOT-14 Phanerogams
Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Explain Binomial nomenclature
2. Write about artificial Classification.
3. Explain Chemotaxonomy with examples
4. Describe Author citation

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Sketch the Bentham and Hooker classification.
2. Write about BSI..
3. Write family description of Annonaceae, Myraceae and ,Poaceae.



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ASSIGNMENT - 2

Programme Code No	:283
Programme Name	:M.Sc., Botany
Course Code & Name	:MBOT-14 Phanerogams
Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Explain theories of taxonomy
2. Write about Numerical taxonomy.
3. Explain monograph with suitable examples
4. Describe Molecular taxonomy and serotaxonomy

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Sketch the Phylogenetic Classification.
2. Write about ICBN and its role.
3. Write family description of Meliaceae, Apiaceae and , Cyperaceae



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Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Explain principles of priorities and its limitations
2. Write about Typification.
3. Explain Cladistics
4. Describe Dendrogram

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Sketch the Effective and valid publication.
2. Write about Herbarium.
3. Write family description of Verbenaceae, Lamiaceae and , Orchidaceae



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Programme Code No	:283
Programme Name	:M.Sc., Botany
Course Code & Name	:MBOT-15 Plant Anatomy and Embryology
Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Write about Classification of meristem
2. Explain Secretary tissues.
3. Give notes on dermal tissues
4. Write about secondary structure of root.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Give detailed notes on Theories of meristem.
2. Describe secondary xylem.
3. Give an account on Primary and secondary tissues



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ASSIGNMENT - 2

Programme Code No :
Programme Name : M.Sc., Botany
Course Code & Name : MBOT-15 Plant Anatomy and Embryology
Batch : AY 2018-19
No. of Assignment : One Assignment for Each 2 Credits
Maximum Marks : 100
Weightage : 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Write about Dermal tissues
2. Explain Dendrochronology.
3. Give notes on nodal anatomy
4. Write about pollination and types.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

- 4) Give detailed account on internal structure of leaf.
- 5) Describe leaf gap with suitable diagrams.
- 6) Give an account on anomalous secondary growth

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Course Code & Name	:MBOT-15 Plant Anatomy and Embryology
Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks.

1. Write about Pollen wall
2. Explain double fertilization
3. Give notes on Apomyxis
4. Write about Endoperms.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Write notes on sstructure and development of anther.
2. Write about different metods of pollination.
3. Give an account on megasporogenesis.