

Lesson Plan 2021-2022

1000 (130) - 21 Diversity of Alvegoniales
Bated - 21/3/2022 to 21/3/2022
Bryophyta - General characters, classification (upto classes), alternation of generations,
evolution of sporophytes and economic importance

Dated - 1/4/2022 to 15/4/2022

UNIT - II

Bryophyta: Structure and reproduction (excluding development) of *Marchantia*

(Hepaticopsida), *Anthoceros* (Anthocerotopsida) and *Funaria* (Bryopsida)

Dated - 16/4/2022 to 30/4/2022

UNIT - III

Pteridophyta - General characters, classification (upto classes), alternation of

generations, heterospory, apospory, apogamy and economic importance;

General account of stellar evolution

Dated - 1/5/2022 to 25/5/2022

UNIT IV

Pteridophyta: Structure and reproduction (excluding development) of *Rhynia*

(Psilopsida), *Selaginella* (Lycopsidea), *Equisetum* (Sphenopsida) and *Pteris* (Pteropsida)

Note: Including test & assignments.

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001-2.2 Genetics
Date - 26/5/2022 to 5/6/2022

Genetic Material: DNA - the genetic material, DNA structure and replication, DNA-

Protein interaction, The Nucleosome Model, Genetic Code, Satellite and Repetitive DNA.

Date - 6/6/2022 to 15/6/2022
UNIT - II

Genetic Inheritance: Mendelism: Laws of Segregation and Independent Assortment; Linkage Analysis; Allelic and non-allelic interactions.

Date - 16/6/2022 to 25/6/2022
UNIT-III

Extra-nuclear Inheritance: Presence and function of Mitochondrial and Plastid DNA; Plasmids.

Genetic Variations: Mutations - spontaneous and induced; transposable genetic elements; DNA damage and repair.
Date - 26/6/2022 to 11/7/2022
UNIT - IV

Gene Expression: Modern concept of gene; RNA; Ribosomes; Transfer of genetic information - transcription and translation; Structure of proteins; Regulation of gene expression in prokaryotes and eukaryotes

Note: Inclusion of test & assign mnts.