



DRAVIDIAN UNIVERSITY
DIRECTORATE OF DISTANCE EDUCATION (DDE)
KUPPAM - 517426

MODEL QUESTION PAPER FOR ASSISGNMENT

(M.Sc. Botany II year) Set-II

Paper-BOT-A201: Plant development and Reproduction

Answer any three questions

3x10=30

- 1.Explain cell expansion and cell elongation in the root meristem?
- 2.Write a note on root hair formation and lateral root formation?
- 3.Describe the development and anatomy of flowering?
- 4.Describe the structure and development of ovule?
- 5.Elucidate the process of in vitro pollination and fertilization?

Paper-BOT-A202: Plant Ecology, Biodiversity and Conservation

Answer any three questions

3x10=30

1. Explain the concept and types of tropical climatic zones?
2. Elucidate about plant succession and concept of community?
3. What are various factors involved in global warming?
4. Describe the concept and applications of remote sensing?
5. Write about the principle of endemism and hotspots?

Paper-BOT-A203: Plant Physiology and Metabolism

Answer any three questions

3x10=30

1. Elucidate the concept of SPAC and stomatal movements?
- 2.Describe the general concepts of enzymology and allosteric mechanism of enzymes?
3. Describe about Calvin and C4 cycles of carbon assimilation?

4. Explain about photoperiodism and photoinduction?
5. What is signal transduction? Write about hormone receptors and gene Expression?

Paper-BOT-A204: Plant Molecular Biology and Genetic Engineering

Answer any three questions

3x10=30

1. How genome is organized in eukaryotes?
2. Describe about split genes and housekeeping genes?
3. Write in details about RNA Splicing?
4. Elucidate about plasmid and phage cloning vectors?
5. Explain the principle of PCR and its applications?