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B.Sc. (Forestry)-3rd Semester, Examinations-(2019-20)
Paper-VII
Tree Physiology

S-1136

Time: Three Hours

MM: 35

Section - A

Note: Attempt all questions. Each question carries 01 mark.

Fill in the blanks.

1. meter is used to measure Transpiration in plants.
2. is the very first event in Photosynthesis.
3. molecules are the known as Energy units of a Plant Cell.
4. Seeds swells up when placed in Water is due to
5. Flow of solvent from low to high concentration is called as

Write True (T) or False (F).

- ~~6. Anaerobic Respiration is also known as Intra-molecular Respiration. T/F~~
- ~~7. Photosynthesis is an Anabolic Process. T/F~~
- ~~8. Natural Auxins found in higher plants is Indole-3-acetonitrile. T/F~~
- ~~9. Ability of plants to reproduce is known as Viability. T/F~~
- ~~10. Stratification is the treatment when plants are exposed to Chilling. T/F~~

Climometer

Section - B

Note: Attempt any five questions. Each question carries 02 marks.

- ~~11. Write about Canopy Structure.~~
- ~~12. What is Vernalization?~~
- ~~13. Define Plant Phyllotaxis.~~
- ~~14. What do you mean by Biocides?~~
- ~~15. Explain LAI.~~
- ~~16. Define Senescence and Abscission.~~
17. Explain Epigeal Germination (with diagram).

Section - C

Note: Attempt any three questions. Each question carries 05 marks.

- ~~18. Describe Photosynthesis. Enlist various factors affect Photosynthesis.~~
- ~~19. Define Growth. Discuss Growth kinetics and factors affecting Growth.~~
- ~~20. Illustrate the role of plants/trees in Pollution control.~~
21. Explain Light Use Efficiency in Forestry trees.
22. What are Phytohormones? Describe the role of Auxin in higher Plants.