

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

FIFTH SEMESTER – APRIL 2022

16/17/18UPB5MC03 – ECOLOGY, PHYTOGEOGRAPHY AND FORESTRY

Date: 17-06-2022

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

Part – A

Answer the following, each within 50 words

(10 x 2 =20 Marks)

1. What are the abiotic components of an ecosystem?
2. Mention the types of consumers.
3. Define clan.
4. How the stomata are arranged on the epistomatous leaves?
5. Mention seed dispersal and its types.
6. List any two disadvantages of shifting cultivation.
7. Compare afforestation and reforestation.
8. What are the characteristics of national park?
9. Compare tree calipers with clinometer.
10. What is the major drawback of 1894 forest Policy?

PART – B

(5 x 7 = 35 Marks)

Answer the following, each within 500 words. Draw diagrams and flowcharts wherever necessary.

11a. Compare food chain with food web.

or

b. Write on the grass ecosystem.

12a. Explain the plant succession of Hydrosere and Xerosere.

or

b. What are the ways to conserve the forest?

13a. Describe the methods of isolation mechanism.

or

b. Explain the vegetational types of Tamil Nadu.

14a. Present an account on nursery techniques for the artificial regeneration of forests.

or

b. Write on the various forest enemies.

15a. What are the objectives, principles and methods of forest management?

or

b. Explain different methods of transport of forest products?

PART – C

(3 x15 = 45 Marks)

Answer any three of the following, each within 1200 words. Draw diagrams and flowcharts wherever necessary.

16. What are the various types of adaptations in hydrophytes?
17. Illustrate on migration and its patterns.
18. Give a detailed account on the theories of discontinuous distribution.
19. Describe the principles, aims, objectives and methods of Silviculture.
20. Write a detailed account on the Non Timber Forest Products (NTFP) with examples.

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