LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIFTH SEMESTER – **APRIL 2016**

PB 5414 - PHYTOGEOGRAPHY AND FORESTRY

Date: 29-04-2016   Dept. No.   Max. : 100 Marks
Time: 01:00-04:00

PART A

Answer the following, each within 50 words only.   **(10 x 2 = 20 marks)**

1. Define cosmopolitan distribution
2. What is glaciation?
3. Distinguish between afforestation and reforestation
4. Define sacred grove.
5. Define silviculture.
6. What are coppicing shoots?
7. Distinguish between major and minor forest products.
8. What is forest mensuration?
9. Define forest economics.
10. Mention the roles of National Wasteland Development Board.

PART-B

Answer the following, each within 500 words. Draw diagrams wherever necessary.   **(5 x 7= 35 marks)**

11. a. Discuss theory of area and theory of tolerance.
    (OR)
    b. Give an account on methods of dispersal, migration and isolation.
12. a. Give a brief account on destructive forces of forest.
    (OR)
    b. How do you protect the forest from forest fire and grazing animals?
13. a. Briefly write about establishment and maintenance of nursery.
    (OR)
    b. Describe the natural and artificial regeneration of forest.
14. a. Write the scope and objectives of forest inventory.
    (OR)
    b. Give an account of methods of measuring the diameter, girth and height of trees.
15. a. Write notes on fundamental principles of forest economics.
    (OR)
    b. Describe the following: Indian Forest Act, 1927 and Wild life Protection Act, 1972.

PART C

Answer any <u>three</u> of the following, each within 1200 words. Draw diagrams wherever necessary.
                                                                (3 x 15= 45 marks)

16. Explain the following: a. Theory of land bridge   b. Theory of continental drift.
17. Discuss the role of tribes in conservation of Biodiversity.
18. Write detailed notes on practices, methods and benefits of social forestry.
19. Give a detailed account on utilization of forest resources.
20. Describe the National forest policy.

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