



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIFTH SEMESTER – NOVEMBER 2017

PB 5414 - PHYTOGEOGRAPHY AND FORESTRY

Date: 15-11-2017
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART – A

Answer the following, each within 50 words.

(10 x 2 = 20 Marks)

1. Mention the difference between cosmopolitan and circumboreal distribution?
2. Define neoendemics?
3. What do you mean by poaching? Give examples.
4. What are reserve forests?
5. What are shelter belts?
6. Define pollarding.
7. Distinguish between current and mean annual increment.
8. What is forest utilization?
9. Write about cost benefit analysis in forest economics?
10. What is the importance of wild life protection act 1972?

PART – B

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

(5 X 7 = 35 Marks)

11. a) Explain the various principles relating to distribution of plants.
OR
b) Discuss the methods of dispersal and migration of flora.
12. a) Bring out the differences between national parks and sanctuaries.
OR
b) Comment on biosphere reserves.
13. a) Give an account on collection, storage, pretreatment and germination of seed.
OR
b) Write a brief account on nursery techniques.
14. a) What is forest mensuration? Describe the methods of measuring diameter, height and volume of trees.
OR
b) Write short notes on minor and major forest products.
15. a) Discuss the law of demand and law of supply in forest economics.
OR
b) Comment on Indian forest act 1927 and Forest conservation act 1980.

PART – C

Answer **any three** of the following, each within 1200 words. Draw diagrams and flowcharts wherever necessary
PB 540(3 X 15 = 45 Marks)

16. Discuss the theories of discontinuous distribution in detail.
17. Describe the destructive forces and agencies of deforestation with special reference to the various strategies adopted to prevent damages caused by fires, insects and pests.
18. Write a detailed account on silviculture techniques.
19. Write elaborate notes on the importance of aerial survey, remote sensing and forest inventory in forest resource management.
20. Discuss in detail about
 - a. Indian forest policy 1894 and 1952
 - b. Wasteland development board and ICFRE.