



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY & PLANT BIO-TECH.

FIFTH SEMESTER – NOVEMBER 2011

PB 5410 - FORESTRY

Date : 10-11-2011
Time : 9:00 - 12:00

Dept. No.

Max. : 100 Marks

Answer All Questions

Part – A

(20 marks)

I Choose the correct answer

(5 x 1 = 5 marks)

1. Major portions of India occupy ----- region.
a) Tropical b. Sub-tropical c. Temperate d. Alpine
2. Which one of the following is more serious?
a. Ground fire b. Surface fire c. Crown fire d. Smoke
3. Common disease of forest nursery is
a. Root knot b. Damping off c. Leaf spot d. Root rot
4. Which one of the following variable is not related with the calculation of form of tree?
a. Basal area b. Height c. Boll d. Crown
5. Indian Forest Research and Training Institute is located at
a. Noida b. Chandigarh c. Delhi d. Dehradun

II State whether the following statements are true or false

(5 x 1 = 5 marks)

6. Junipers are common in alpine forests.
7. Earth quake is the major factor that destroys forest species.
8. Hydrosere is initiated by lichens.
9. In the timber conversion processes, axe should not be used.
10. The forest law of Papua New Guinea came into existence in Forestry Act 1991.

III Complete the following

(5 x 1 = 5 marks)

11. Toxin produced from one plant root is inhibiting the growth of other plant is known as -----.
12. Peoples of ----- are involved in preserving forest germplasm in forest itself.
13. Roots like ----- are commonly observed in *Ficus bengalensis*.
14. Raw material for silk industry is ----- tree.
15. National Forest Policy of India was instituted during the year -----.

IV Write short notes on the following not less than 50 words.

(5 x 1 = 5 marks)

16. Biosphere
17. Sacred grooves
18. Recreational forests
19. Any 4 forest minor products
20. Cost benefit ratio

Part – B

Answer the following, each within 350 words each.

(5x 7 = 35 marks)

21. (a) Comment on the various abiotic factors that influence the forests.
Or
(b) Write notes on mutualism and commensalism with suitable examples.
22. (a) Bring out the details on biosphere reserves of India.
Or
(b) Briefly explain about biological destructive forces of forests.
- 23.(a) Write short notes on plant succession.
Or
(b) Explain the nursery techniques followed in forestry.
24. (a) Describe forest mensuration with reference to plant height measurements.
Or
(b) Enumerate various technical properties of timber.
25. (a) Give the outlines of PNG Forest Authority of India.
Or
(b) Bring out the various principles of forest economics.

Part – C

Answer any THREE of the following, each in about 1200 words each.

(3 x 15 = 45 marks)

26. Write detailed notes on Indian Forest types and their distribution.
27. Describe about forest fires and its control measures.
28. Give an account on artificial means of forest regeneration.
29. Explain the age determination procedure followed in forest trees.
30. Explicate the parts of the National Forest policy.
