

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry. 2012 Admission

Vth Semester Final Examination- February -2015

Cat. No: Fmau.3108

Title: Forest Protection (1+1)

Marks: 80

Time: 3 hours

I. Fill up the blanks/State True or False:

10 x 1 = 10

1. Absence of clear demarcation of forest boundaries is one of the main reasons of illicit felling. (True / False)
2. The material of biological origin used to improve and maintain soil fertility is..... (Bio-pesticide / Bio-fertilizer / Bio-nutrient)
3. Forest cover acts as screen and prevents sun's rays from heating air and soil inside the forest. (True / false)
4. Forest fire which burns not merely the ground cover but also under growth is called as..... (Creeping fire / Ground fire / Surface fire)
5. Shifting cultivation is also known as *jhum cultivation*. (True / False)
6. The wild animal which is most destructive to the forest vegetation is (Elephant / Buffalo / Porcupine)
7. Continuous grazing is better than periodic grazing. (True / False)
8. Fire spreads very fast when it travels..... (Downhill / Uphill / Across the hill)
9. A fire trace is defined as a cleared line used as base from which to counterfire. (True / false)
10. The amount of grazing that an area can support under controlled grazing expressed as animals per acre/hectare is termed as..... (Grazing capacity / Grazing incidence / Grazing intensity)

II. Answer on ANY TEN of the following:

10 x 3 = 30

1. How do the forests help in reducing the environmental pollution?
2. What is illicit felling?
3. What is early burning?
4. What are the lianas and how do they affect the growth of forest species?
5. How does weather influence the fire environment?
6. How does the controlled burning affect the forest fire?
7. What are the advantages of grazing?
8. What is counter firing?
9. Write control measures of parasitic and epiphytic plants.
10. What is carrying capacity concept?
11. What is shifting cultivation?
12. What are disadvantages of over grazing of forest area?

III. Write short essays on ANY SIX of the following:

6 x 5 = 30

1. What is forest protection and why is it necessary?
2. Discuss the causes and control measures of illicit felling.
3. Write the classification of forest fires.
4. Describe the rotational grazing.
5. Write a note on damages in forest from encroachment
6. Write a note on fire fighting devices.
7. Write the various techniques to control the injurious plants of forests.
8. What is acid rain? Describe the various causes of acid rains.

IV. Write essay on ANY ONE of the following:

1 x 10 = 10

1. How does the forest fire affect the forest ecosystem? Also discuss preventive measures of forest fires.
2. List out the damages caused to the forests due to uncontrolled grazing. Also discuss preventive and remedial measures of uncontrolled grazing.