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B.E (AGRICULTURAL AND IRRIGATION ENGINEERING) DEGREE END SEMESTER EXAMINATIONS, NOV 2011 HIL SEMESTER



III SEMESTER

AI 9203 PRINCIPLES OF CROP PRODUCTION

(REGULATIONS 2008)

Time: 3 hrs

Total Marks: 100

Part A $(10 \times 2 = 20)$

Answer All Questions

- 1. Explain the term crop production and its sub-sectors.
- 2. Write briefly about symbiosis.
- 3. Differentiate the terms soil fertility and soil productivity.
- 4. Write briefly about universal soil loss equation.
- 5. Differentiate the terms strip tillage and ridge tillage.
- 6. Explain the term integrated nutrient management.
- 7. List down the ideal conditions for rice cultivation.
- 8. What should be applied for the pod development and at what rate?
- 9. Explain preparation and planting of cuttings in tea cultivation.
- 10. What are the major divisions of horticulture?

Part B (5 x 16 = 80) (Question 11 is compulsory)

- 11(a) Explain in detail the factors affecting the crop growth. (9)
 - (b) Write the role of the plant nutrients and deficiency symptoms for any 3 nutrients. (7)
- 12(a)(i) List down all the essential elements required for crop growth and the criteria for an element. (7)
 - (ii) Explain in detail the factors affecting the land degradation. (4)
 - (iii)Define erosivity and erodibility. (5)

Or

- 12(b)(i) What are the causes of erosion? Explain the factors affecting erosion. (7)
 - (ii) Discuss in detail the soil moisture constants. (9).
- 13(a)(i) List out the objectives of tillage and explain the different tillage practices. (16)

Or

- 13(b)(i) Classify and discuss in detail about fertilizers with examples. (8)
 - (ii) Explain the different methods of weed control. What is integrated weed management? (8)
- 14(a) Explain the general cultivation practices followed for rice. (16)

Or

- 14(b) Explain in detail the cultivation and management of green manure crops. (16)
- 15(a) Discuss about the cultivation practices for any fruit. (16)

Or

15(b) Describe the cultivation of mushrooms and organic cultivation process for vegetables. (16)