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Question Paper Code:1083439

B.E. / B.Tech. DEGREE EXAMINATIONS, NOV/ DEC 2024  
Third Semester  
Agricultural Engineering  
U20AG301 – PRINCIPLES AND PRACTICES OF CROP PRODUCTION  
(Regulation 2020)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions

PART – A

(10 x 2 = 20 Marks)

1. Define agronomy and its significance.
2. Write the important factors that affecting crop production.
3. What do you mean by duty and delta?
4. Differentiate Primary Tillage and Secondary Tillage.
5. Name the Benefits of integrated nutrient management.
6. Define fertigation and its advantage in crop management.
7. Mention irrigation practices for oilseeds.
8. List two common pest management strategies for cereals.
9. Explain why nutrient management is crucial in fruit crop production.
10. What are two benefits of using greenhouses in crop production?

PART – B

(5 x 16 = 80 Marks)

11. (a) Define the role of agriculture in modern society and identify its key sub-sectors.

(16)

(OR)

- (b) Explain in detail about internal and external factors affecting crop productions.

(16)

12. (a) Describe various types of tillage practices. (16)

(OR)

(b) Discuss the significance of seed selection, treatment, and nursery practices in establishing a healthy crop stand. (16)

13. (a) Explain the principles of integrated pest management (IPM) and its components. (16)

(OR)

(b) Describe the need for nutrient supplementation in crop nutrition management and outline common nutrient sources. (16)

14. (a) Discuss cultivation techniques of cereals, including land preparation, sowing methods, water management, and nutrient requirements. (16)

(OR)

(b) Explain about Organic Farming. (16)

15. (a) Describe the cultivation practices of Jasmine. (16)

(OR)

(b) Discuss how greenhouse cultivation enables off-season production of horticultural crops. (16)

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