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GIET UNIVERSITY, GUNUPUR – 765022
M. Sc. (Ag.) (First Semester) Examinations, November – 2022
AGRON- 501 – Modern Concepts of Crop Production

Time: 2 hrs

Maximum : 55 Marks

The figures in the right hand margin indicate marks.

PART – A

Q1. Define (or) Explain the following in one or two sentences. (1 x 10 = 10 Marks)

- a. Ephemeral
- b. Lodging
- c. crop modelling
- d. Precision agriculture
- e. Hydrological drought
- f. Contingency Cropping
- g. Baule unit
- h. Aeroponics
- i. Asymptotic response
- j. GPS

PART – B

Q2. Answer ANY SIX questions: (Short Answer Questions) (2.5 x 6 = 15 Marks)

- a. Explain different types of drought based on duration
- b. Inverse yield nitrogen law
- c. Ideotype of wheat
- d. Effect of light on crop growth
- e. Principle of IFS
- f. Theory of Nitrogen constant 318
- g. Relative constant rate of dry matter accumulation
- h. Stomatal mechanism for water conservation

PART – C

Attempt ANY SIX questions. (Long Answer Questions) (5 x 6 = 30 Marks)

3. What do you mean by Contingency Cropping? Explain the Contingency Planning for rainfall abnormalities?
4. Explain briefly about mechanism that exist in plants for conserving moisture in dry regions?
5. Explain the effect of lodging in cereals and its management?
6. Describe in brief about the factors affecting crop production and 5P's of yield potential?
7. Explain in brief the Agro- Climatic Zones of India according to Planning Commission 1989 and locate it on the Map?
8. Define organic farming and write down the History of Organic farming. Explain the aim of organic farming?
9. Explain in details about yield and environmental stress on crops with the management practices?
10. Explain important features of ideal plant type. Give examples of 2 crops with brief description?

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