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**Previous Year Paper**

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Serial No.

**1110**

**AGRICULTURE : PAPER-I**

**Full Marks-100**

**Time-2 Hours**

**PART-I**

**(Descriptive-80 marks)**

**A. Agronomy**

**(Answer any Four questions)**

1. Describe in detail the 'Package of Practices' of Wetland Paddy cultivation. 20
2. State the principles of Organic Farming and describe the current status of Organic Farming *vis-a-vis* Food Security. 20
3. What do you understand by 'Green Revolution' and describe its impact on the Agriculture scenario in the country. 20
4. Describe the economic importance, soil and climate requirements, varieties and cultural practices of the Maize crop. 20
5. Describe the advantages and disadvantages of Rain-fed Agriculture versus Irrigated Agriculture ? 20
6. Describe in brief the 'Rice-based cropping system' and the 'Seed treatment of Paddy. 10+10

**OR**

MAS(III)-I

[1]

PTO

### **Horticulture**

**(Answer any Four questions)**

1. What are the major Spice crops of Meghalaya and describe the 'Package of Practices' of one of them. 20
2. What are the different techniques of Plant propagation of fruit trees and describe in detail on one of them. 20
3. What are the basic principles in Vegetable production and describe in detail the 'Package of Practices' of anyone of the major Vegetable crops cultivated in Meghalaya. 20
4. Describe in detail the impact of 'Protected Cultivation' and 'High Tech Horticulture' in the State of Meghalaya. 20
5. Describe in detail the Post-harvest techniques of anyone of the major Vegetable crops cultivated in Meghalaya and discuss the constraints you observed in this aspect. 20
6. Describe in brief the Principles of Landscaping and commercial Floriculture. 10+10

**PART-II**  
**(Objective-20 marks)**

**B. Plant Physiology**

**Choose the correct answer :**

**10x2**

1. Transpiration is least in
  - a) Good soil moisture
  - b) High wind velocity
  - c) Dry environment
  - d) High atmospheric humidity
2. Stomata open and close due to
  - a) Circadian rhythm
  - b) Genetic clock
  - c) Pressure of gases inside the leaves
  - d) Turgor pressure of guard cells
3. Gibberellins promote
  - a) Seed germination
  - b) Seed dormancy
  - c) Leaf fall
  - d) Root elongation
4. Carbon dioxide joins the photosynthetic pathway in
  - a) PS I
  - b) PS II
  - c) Light reaction
  - d) Dark reaction
5. Minerals absorbed by the root move to the leaf through
  - a) Xylem
  - b) Phloem
  - c) Sieve tubes
  - d) None of the above
6. Which one of these increases in the absence of light ?
  - a) Uptake of minerals
  - b) Uptake of water
  - c) Elongation of internodes
  - d) Ascent of sap
7. With an increase in seed size upon germination, dry mass of seeds

MAS(III)-I

[3]

PTO

10. In the soil, the water that is available for root absorption is
- |                        |                    |
|------------------------|--------------------|
| a) Gravitational water | b) Capillary water |
| c) Hygroscopic water   | d) Combined water  |

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