

**GOVERNMENT OF PUDUCHERRY
DEPARTMENTAL TEST IN AGRICULTURE**

Duration: 2 hrs.

Maximum Marks: 100

Minimum Marks : 40

1. Questions I and II in Part-A are compulsory.
2. Also answer any four out of the remaining questions in Part-B..
3. Authority should be quoted wherever necessary and quoting mere reference to the authority alone will not be treated as answer.
4. Wrong numbering of questions and illegible handwriting are liable to deduction of marks.

PART – A (COMPULSORY)

- I. Describe the procedure prescribed for disposal of non-standard fertilizers. 20 Marks
- II. Write short notes on any five of the following:- 20 Marks
 1. Isolation distance
 2. Cono weeder
 3. Combine harvester
 4. Daily record sheet
 5. Electrical conductivity
 6. Red hairy caterpillar
 7. Drip irrigation
 8. Soil health card
 9. Zinc phosphide
 10. Water users association

PART – B (OPTIONAL)

Answer any four questions only. All questions carry 15 marks each

- III. What are the advices to be made to the farmers before and after the incidence of natural calamities like cyclone or heavy rains?
- IV. What are the basic differences in the marketing procedures adopted in the Regulated Markets and Uzhavar Sandhais?
- V. Distinguish between any three of the following:-
 - a) Method demonstration and result demonstration
 - b) Surface irrigation and lift irrigation
 - c) Farmers field school and field day celebration
 - d) Catchment area and ayacut area
 - e) Pipe lining and channel lining
 - f) Bio-fertiliser and organic fertilizer
- VI. Describe the Integrated Pest Management techniques recommended for adoption in cultivation of paddy crops.

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VII. Furnish the general fertilizer recommendations for any three of the following crops with break-up of basal application and top dressing:-

- | | |
|------------------------|------------------------------|
| a) Banana | d) Irrigated MCU cotton |
| b) Sugarcane | e) 20 years old coconut palm |
| c) Irrigated groundnut | |

VIII. Give the expansion for any three of the following abbreviations and also explain briefly:-

- | | |
|-------------|---------------|
| a) E.T.L. | d) I.N.M. and |
| b) S.R.I. | e) M.S.P |
| c) A.T.M.A. | |

IX. Mention the kinds of drilling equipments and machineries used for tapping shallow and deep ground water aquifers. What are the testing and developing equipments used in the tube wells. What are the general restrictions imposed for tapping ground water in Puducherry region?

X. Describe the procedure adopted in the Agriculture Department to determine eligible farmers including tenant cultivators for providing substantial financial assistance for natural calamity relief and for purchase of tractors and power tillers.

27.02.2009

(27)

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4. Marks will be deducted for wrong numbering of questions but neatness and legibility will carry extra marks.

PART A (COMPULSORY)

I. Write short notes on any five of the following

20 Marks

1. Bio – fertilizers
2. Soil organic carbon
3. Approach grafting
4. Poultry Mannure
5. Earhead bug
6. Soil solarization
7. Panama wilt of Banana
8. Minimum support price
9. Mulching
10. North East monsoon

II a. What is Vermicomposting? Outline the production processes involved in Vermicompost.

20 Marks

(OR)

b. Soil related constraints and their management in crop production.

PART B (Answer any four questions)

III What is "Hunger Sign"? Describe the general Hunger Signs of crop nutrient elements.

15 Marks

IV. Describe the package of practices for Groundnut.

15 Marks

V. What is irrigation efficiency and water use efficiency? Enumerate the factors affecting water use efficiency.

15 Marks

VI. Discuss about the Agricultural Marketing facilities available for a farmer in the UT of Puducherry. 15 Marks

(OR)

Discuss the various types of farm implements and machineries available for a paddy farmer

VII. Explain the following 15 Marks

1. Soil pH
2. Hectare
3. Clonal seedling
4. Glyphosate
5. crop year – Sugarcane

VIII. What is Precision farming? Briefly explain about various infrastructure requirement for adopting Precision farming. Discuss the advantages and disadvantages of the precision farming. 15 Marks

IX. What is ATMA? What are the objectives of ATMA – in Puducherry. 15 Marks

X. Write short notes on Nursery practices for any three of the crops. 15 Marks.

1. Rice
2. Ragi
3. Brinjal
4. Sugarcane