

KERALA AGRICULTURAL UNIVERSITY
B.Sc. (Ag) 2003 Admission - V Semester Final Examination
July/August 2006

2003-55
Max. Marks: 60
Time: 2 hours
(20 x 0.5 = 10)

Agro 308

Crop Production III (1+1)

I. Answer All the Questions

Fill up the blanks

1. Potato is a native of _____.
2. Sweet potato belongs to the family _____.
3. Tapioca originated from _____.
4. _____ is a crop which is allowed to grow from the roots of previous crop in the same field.
5. Sugarcane crop matures within _____ months in North India.

Give the names of

6. The herbal and chemical materials used for clarify the cane juice.
7. In sugarcane, this planting is popular in North India which is done during October November.
8. Colocasia and Xanthosoma are together called as _____.
9. Tapioca is propagated vegetatively by mature stem pieces called as _____.
10. Name the disease caused by streptomyces bacteria in potato _____.

True or False

11. Top portion of potato is called haulms
12. Heavy clay, saline and alkaline soils are suitable for sweet potato
13. Colocasia can tolerate hot and dry weather
14. Saccharum officinaum is known as noble cane
15. Kovvur is the variety of colocasia

Choose the correct answer

16. The soil type best suited for raising potato (Sandy loam / sandy clay)
17. *Colocasia esculenta* is (Tannia / Tavs)
18. *Dioscorea esculenta* is (White yam / Greater yam / Lesser yam)
19. Tapioca belongs to the family (Euphorbiaceae / Convolvulaceae / Solanaceae)
20. For sprouting and initial vegetative growth of potato optimum temperature requirement is (12 - 14 °C) / 22 - 24 °C / 30 - 34 °C)

(6 x 1 = 6)

II. Answer All the Questions

Give Reasons

1. Higher temperature has an adverse effect on potato tuber growth.
2. Earthing up is necessary for sugarcane.
3. Why potato tubers are treated with Gibberlic acid?

Define

4. Arrowing
5. Tuberisation
6. Bolting

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III. Answer any six of the following

(6 x 2 = 12)

Short notes on

1. CTCRM and CTCRI
 2. Illustrate the yield measurement of sugarcane
 3. Grading of potato tubers
 4. Season of planting of sweet potato
- Distinguish between
5. Elephant foot yam and Greater yam
 6. Rayangan and Jeblong
 7. Corn and Cornels
 8. Adsali and Eksali plants

IV. Answer any Four of the following

(4 x 3 = 12)

Briefly write about

1. Soil and climate requirements of sugarcane
2. Importance of tuber crops in Indian economy
3. Soil and climatic requirements of sweet potato
4. Important varieties of potato
5. Ratoon management in sugarcane
6. Sugarbeet by products and their utilization

V. Answer any Four of the following

(4 x 5 = 20)

1. Describe harvesting practice of sugarcane. Discuss about sugarcane quality and factors affecting it.
2. Explain the cultivation practices of sugarbeet.
3. Describe the soil and climatic requirements.
4. Briefly mention the uses of yams and explain the package of practices.
5. Describe the cultivation practices of arrow root and colacasia.