

EASTERN UNIVERSITY, SRI LANKA

THIRD YEAR / SECOND SEMESTER EXAMINATION IN AGRICULTURE - 2001/2002
CSC - 3201 FARM PRACTICE

ANSWER ALL QUESTIONS

TIME ALLOWED: 2 Hours.

Note: Mention the crop that you have cultivated

1. a) What are the major districts in Sri Lanka that produce your crop?
b) Give the cropping system/pattern adopted.
2. What is the best time of planting the crop? (Give week and month). Indicate on half monthly basis (Jan - Dec) the most suitable, suitable, suitable with extra care and unsuitable periods; show them in a bar diagram.
3. What are the factors that determine the best time of planting?
4. Give various recommended spacing of the crop. On what basis do they differ?
5. Is your crop suitable for intercropping? When can be intercropped; what are the companion crops? What is the best combination?
6. What are the methods of plant establishment practiced for the crop? Give various methods and geometries. Transplanted, direct sown, row planted, planted in ridges and furrows, broad beds, basins and others. Which one do you select for the crop? Give reasons.
7. What are the seed treatments required by the crop? Give reasons for each treatment.
8. What are seeds quality standards specified to your crop?
9. What are the manures and fertilizers applied as basal? Give the types, quantity and methods of application.

10. What are the critical periods of water stress of your crop?
11. Prepare a suitable irrigation schedule. What is the total water requirement of the crop?
12. What are the common pests of your crop? How do you identify them?
13. What are the common diseases of the crop? (Fungal, Bacterial and Viral).
 - a) What prophylactic measures that you would take to control them?
 - b) How do you identify them in the field?
14. What precautionary measures that you will adopt when applying agrochemical in the field in order to get maximum efficiency and to prevent human hazard and phytotoxicity.
15. What are your suggestions to reduce the cost of cultivation without losing targeted crop yield?
16. What is the optimum time of harvest? What are the criteria? Visual signs? Tests? etc. What happens when you advance or delay the optimum time of harvest?
17. What are the value added products of the crop? How are they processed?
18. What are the physical and agronomic methods of controlling pests in your crop?
19. Does the crop exhibit seed dormancy? What are the merits and demerits? How will you remove the dormancy?
20. Give the reasons for the following phenomenon in your crop
 - a) Flower drop / Spikelet sterility
 - b) Poor pod development/Grain filling
 - c) Poor quality characters of the produce
21. What are the yield components of your crop? Relate them to yield. Use standard equations.
22. How do you estimate the crop yield of a standing crop?
23. Give recommended top dressing of fertilizers. Type, quantity and time of application. Give reasons for split application.
24. Compare agronomic practices adopted by you and the local farmers. Reason out if there are differences.

25. What are the technical and other problems associated with your cultivation?
26. How will you achieve maximum water use efficiency in your crop?
27. Give 02 names of Books, Journals and Research abstracts written on the crop, Any web site?
28. Mention name of Two (02) scientists who have worked on the crop. Give details of disciplines: Agronomy, Physiology, Breeding, Entomology, Pathology etc.
29. What special agronomic practices that you will adopt to produce seed materials from your crop?
30. Give characteristics features of important varieties that are popular at present (Give 04). In case of rice mention 4 varieties for each age group; pertaining to the dry zone.
31. Mention the name/names of international research centers working on your crop.
32. Mention research centers associated with the crop in Sri Lanka.
33. List 04 important Agricultural research Stations in Sri Lanka.
34. List the types and methods of packaging vegetable crops.
35. Give a suitable crop rotation system for the Dry zone.
36. How will you store your produce?
37. At 30 X 10 cm planting space, calculate the plant population in one hectare.
38. What is the average cost of cultivation of your? Give separately for rainfed and irrigated crop.
39. a) What is the potential yield of your crop?
b) What is the yield that you have obtained?
40. a) What is the market outlet for your crop?
b) What is the current market price of your produce?

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