



Uva Wellassa University, Sri Lanka
End Semester Examination – Aug/Sep2011
AQT 225-2 In vitro propagation of plants
Time: Two (02) hour

Index number

This question paper consists of two parts: part- A and part-B

Answer all the questions in Part-A in the space provided and two (02) questions from Part-B

PART – B (50 marks)

1.
 - a. Why maintaining strict sterile (aseptic) conditions is important in plant tissue culture laboratory? (10 marks)
 - b. Explain how the Laminar Flow Hood provides an aseptic environment. (10 marks)
 - c. Briefly explain the good tissue culture practices one should follow when working in the Laminar Flow Hood. (05 marks)

2.
 - a. Name five aquatic ornamental plants of Sri Lanka that you could propagate using plant tissue culture techniques (give the scientific name and the common name). (05 marks)
 - b. Briefly describe how you are going to use the meristem-culture technique to propagate one of the aquatic ornamental plants you named in (a). (15 marks)
 - c. Tissue culture propagation of aquatic ornamental plants is considered to be difficult. Very briefly explain this statement. (05 marks)

3. Write an essay on "How plant tissue culture techniques could be used to prevent overexploitation of endangered aquatic ornamental plants of Sri Lanka". (25 marks)

4. Discuss how tissue culture propagation of aquatic ornamental plants guarantee high quality, uniform and disease-free plants for the export market" (25 marks)

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