

End Semester Examination – September/ October 2012
Year II Semester II

Advanced Crop Physiology & Repeat (PLT 251 -2)

Instructions

Answer all questions

No. of questions : Two (02)

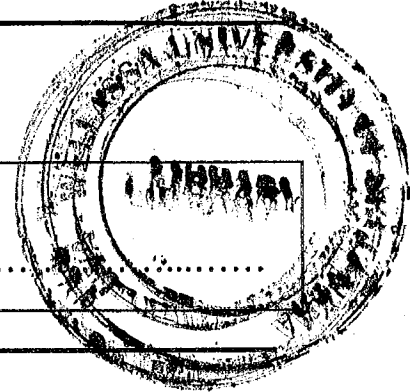
No. of pages : One (01)

Total marks allocated : 50%

Time : 1 hour

Index No:

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Part II – Essay

Question 01

(75 Marks)

- I. Explain the principle behind the Infra-Red Gas Analysis (IRGA) with emphasis on its practical use in physiological studies.
- II. “Infra-Red Gas Analysis (IRGA) is significantly interfered by the presence of water vapour in the air.” Briefly discuss this statement stating methods used in commercial IRGA to avoid this problem
- III. What is the difference between open and closed systems of infra red gas analysis used in portable photosynthesis systems.
- IV. Briefly discuss the advantage of the open system over closed system.

Question 02

(75 Marks)

- I. Briefly explain the functions and importance of the three key enzymes (i.e. Invertase, Pyruvate Kinase and Phosphoenolpyruvate Carboxylase) in Glycolytic pathway of latex synthesis.