

09-3RD-ENG-2009

Uva Wellassa University, Sri Lanka
End Semester Examination – June/July 2009
ENG 311-1 Mini Project



Time: One (01) hours

Answer all questions

1.
There will be an exhibition at the university in the near future. Same door is to be used to get in and out from the main exhibition hall. Organizers decided to have only 100 people inside the exhibition hall at any instant. The number of people inside the hall is to be displayed outside the door in real-time.

- i. Suggest a method to count people passing through the entrance.
(Marks 8)
- ii. Give a suitable algorithm to count the people inside.
(Marks 3)
- iii. How you detect whether a person passing through the door went in or came out.
(Marks 8)
- iv. If more than one person passed through the door at the same time, how you can count them?
(Marks 8)
- v. Discuss about the display unit you are proposing for this system considering its economical and technical aspects.
(Marks 5)
- vi. If we want to record the number of people inside every 15 minutes and want to get a print out once a day, explain how you extend your system to suite this requirement.
(Marks 8)