

Faculty of Science  
Department of Computer Science

Supplementary Examination, 2005

Title of Paper: Operating Systems  
Course Number: CS442  
Time Allowed: Three (3) hours  
Instruction: Answer all questions  
Special Requirement: none

This examination paper should not be opened until permission has been granted by the invigilator.

1. [10]

(i) What is simulation?

(ii) What is emulation?

(iii) Describe your efforts to use the Bochs simulator to practise partitioning

2. [10]

Do the POSIX standards hinder or encourage operating system development?

3. [10]

Are there significant differences between the IEEE 1394 and USB protocols? Discuss these protocols; you may give a table of features of both protocols.

4. [20]

What is the Producer – Consumer Problem? Define it, explain it and give an example.

5. [18]

Draw the state diagram for the First Come First Served scheduling algorithm. List other scheduling algorithms.

End of examination paper