

2007 Calicut University M.C.A

Second semester mca degree examination september/october 2007

MCA 2K 205-INTRODUCTION TO SYSTEM PROGRAMING Question paper

Maximum marks: 100

Time : Three hour

Answer any five questions.

1. a) Explain the advantages of RISC machine.
b) Translate the following c statement in to assembly language:
 $x = a * b - c * d$.
c) Explain the basic assembler functions.
2. a) With an example, explain relocatable loader.
b) What are the various options available to design a loader.
3. a) Discuss the basic principles of an operating system.
b) Explain real-time system.
c) Discuss the issues in multiprogramming.
4. Explain the detail about the management of the real and virtual memory in multiprogramming environment.
5. a) Explain interrupt processing and I/O supervision.
b) Discuss the role of PCBs in operating system.
6. a) Give an overview of the UNIX Operating system.
b) Discuss the architecture of UNIX Operating system.
7. Write short notes on:
 - a) User interface.
 - b) Run-time environment.

- c) Bootstrap loader.
- d) i-node in UNIX

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