

MODEL QUESTION PAPER

DSCO1

III Semester DIPLOMA Examination, August 2011 OPERATING SYSTEM

Time: 3 Hours

Max. Marks: 75

GROUP A : Answer any three questions.

- Q.1 Explain the different types of access methods.
- Q.2 Explain Bankers algorithm. Give example.
- Q.3 What is thrashing? Explain when thrashing occurs, what are its characteristics?
- Q.4 Define process with neat diagram explains process transitions.
- Q.5 What is process? Discuss orphan process.

GROUP B : Answer any three questions.

- Q.6 Explain the different conditional statements in Linux.
- Q.7 Differentiate types of process scheduling in details.
- Q.8 Differentiate paging and segmentation? Give advantages of paging.
- Q.9 Explain the address translation in segmentation.
- Q.10 What is thread and context switching? Explain in details.

GROUP C: All Questions are Compulsory.

Q.11 Fill in the blanks .

- (i) RAID is a _____ technique.
- (ii) Replication is for _____.
- (iii) _____ is used for memory management.
- (iv) Bankers algorithm is _____ algorithm.
- (v) Segmentation is memory _____ technique

Q.12 Multiple choice question.

- (i) FIFO scheduling is _____.
 - (a) Preemptive Scheduling
 - (b) Non Preemptive Scheduling
 - (c) Deadline Scheduling
 - (d) Fair share scheduling
- (ii) A page fault occurs _____.
 - (a) When the page is not in the memory
 - (b) When the page is in the memory.
 - (c) When the process enters the blocked state.
 - (d) When the process is in the ready state.
- (iii) A critical region _____.
 - (a) is a piece of code which only one process executes at a time.

- (b) is a region prone to deadlock
- (c) is a piece of code which only a finite number of processes execute.
- (d) is found only in Windows NT operation system
- (iv) In the blocked state _____.
 - (a) The processes waiting for I/O are found
 - (b) The process which is running is found
 - (c) The processes waiting for the processor are found
 - (d) None of the above
- (v) What is a shell?
 - (a) It is a hardware component
 - (b) It is a command interpreter
 - (c) It is a part in compiler
 - (d) It is a tool in CPU scheduling

Q.13 True or false

- (i) Process is an independent program with its own data.
- (ii) Process is having its own data.
- (iii) Replication is for data safety.
- (iv) Memory management is not a function of OS.
- (v) Paging is used to manage storage.
