

No. of Printed Pages : 4

Roll No.

220831

**3rd Sem. / Computer,
Computer (For Speech and Hearing Impaired)
Subject : Operating Systems**

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Which one of the following is the address generated by CPU?
- a) Physical address
 - b) Absolute address
 - c) Logical address
 - d) None of the mentioned
- Q.2 What is Operating System
- a) It acts as an interface between the hardware and application programs
 - b) It is a collection of programs that manage hardware resources
 - c) It act as Resource Manager
 - d) All of the above

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- Q.3 Memory management technique in which system stores and retrieves data from secondary storage for use main memory is called
- a) Fragmentation
 - b) Mapping
 - c) Paging
 - d) None of the above
- Q.4 Which command is used to clear the screen or terminal in linux?
- a) Chsh
 - b) Chown
 - c) Clear
 - d) Clean
- Q.5 Run time mapping from virtual to physical address is done by
- a) Memory management
 - b) CPU
 - c) PCI
 - d) None of the mentioned
- Q.6 Which of the following operating system does not implement multitasking truly?
- a) Windows XP
 - b) Wmdows98
 - c) MS DOS
 - d) Windows NT

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SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 DOS is a Multiuser Operating System. (T/F)
- Q.8 When CPU generates an address, it is known as _____.
- Q.9 Define Operating System.
- Q.10 Who developed LINUX?
- Q.11 Two states in Banker's algorithm are _____.
- Q.12 Name two types of File Systems.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Define File System. Why it is required? Name four categories of File System.
- Q.14 What are various scheduling and performance criteria while scheduling is performed?
- Q.15 Why we need storage devices? Discuss various storage devices in brief.
- Q.16 Write a shell script to find whether a given number is prime or not.

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Q.17 Explain any four types of memory allocation schemes.

Q.18 Explain any four types of Systems Calls.

Q.19 Briefly explain the concept of fragmentation.

Q.20 What is paging? Briefly explain pages & Frames with the help of a diagram.

Q.21 What are different classes of input output devices. Give examples.

Q.22 Briefly explain any four types of Operating system.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 What are necessary conditions for a deadlock to occur? Explain Banker's algorithm for deadlock prevention.

Q.24 What is a shell script? How a shell script is written and executed? Explain with the help of an example.

Q.25 Define Process, Process States, Process Control Block and its various fields.

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