

No. of Printed Pages : 4
Roll No. 180831/170831/
120831/030831

3rd Sem / Comp, IT, GE
Subject:- Operating System

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 Which of the following is/are not the type of scheduling algorithm in operating system?

- a) Round robin
- b) First come first serve (FCFS)
- c) Shortest Job First
- d) Last come last serve (LCLS)

Q.2 What is an operating system?

- a) Acts as interface between the hardware and application programs
- b) Operating system is an application software
- c) Both a and b
- d) None of the above

Q.3 Which of the following comes under category of system calls in operating system?

- a) System calls for file management
- b) System calls for process control
- c) System calls for information management
- d) All of the above

Q.4 In the process management Round robin method is essentially the preemptive version of _____

- a) FIFO
- b) SJF
- c) Priority scheduling
- d) Batch processing

(1) 180831/170831/
120831/030831

Q.5 Banker's algorithm is for

- a) Deadlock prevention
- b) Deadlock avoidance
- c) Deadlock Detection
- d) Deadlock creation

Q.6 Page moving process from main memory to disk is called

- a) Caching
- b) Termination
- c) Swapping
- d) Interruption

Q.7 By using the specific system call, we can _____

- a) open the file
- b) read the file
- c) write into the file
- d) all of the mentioned

Q.8 Which of the following two operations are provided by the IPC facility?

- a) write & delete message
- b) delete & receive message
- c) send & delete message
- d) receive & send message

Q.9 Command used to count number of character in a file is

- a) head
- b) wc
- c) whoami
- d) talk

Q.10 pwd command displays

- a) password of user
- b) file content in protected mode
- c) present working directory
- d) none of mentioned

(2) 180831/170831/
120831/030831

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define system calls.
- Q.12 SJF stands for _____
- Q.13 wc command is used for _____
- Q.14 Write names of any two operating systems.
- Q.15 What is vi editor?
- Q.16 Write an example of dedicated and shared devices.
- Q.17 What is mutual exclusion?
- Q.18 Define segmentation.
- Q.19 When a process is in a "Blocked" state waiting for some I/O service. When the service is completed, it goes to the _____
- Q.20 What is shell scripting?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 What are the benefits of Virtual machine, explain?
- Q.22 Write a note on fragmentation.
- Q.23 Explain the primary functions of an operating system.
- Q.24 What is/are the difference(s) between paging and segmentation?
- Q.25 Explain various attributes of the process control block (PCB).

(3) 180831/170831/
120831/030831

- Q.26 What are the advantages of file management, explain?
- Q.27 Explain the difference between spooling and buffering.
- Q.28 How do you change directions in Linux?
- Q.29 Define fragmentation in the context of memory management.
- Q.30 List various scheduling algorithms. Explain any two in detail.
- Q.31 What are some methods for handling deadlock?
- Q.32 Define context switching.
- Q.33 Explain various process states in brief.
- Q.34 Explain the difference between preemptive and non-preemptive scheduling.
- Q.35 What are the features of Linux?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 What is scheduler? Explain various types of scheduler in detail.
- Q.37 What is the need of virtual memory in operating systems? Also, discuss the difference between virtual and cache memory.
- Q.38 Explain the structure of Linux along with their components. Also, write advantages and disadvantages of Linux operating system.

(1800) (4) 180831/170831/
120831/030831