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3rd Sem / Computer Engg.
Subject:- Operating System

Time : 3Hrs.   M.M. : 100

SECTION-A

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

Q.1 To access the services of the operating system, the interface is provided by the _____   (CO1)
a) Library   b) System calls
c) Assembly instruction d) API

Q.2 In priority scheduling algorithm _____   (CO3)
a) CPU is allocated to the process with highest priority
b) CPU is allocated to the process with lowest priority
c) Equal priority processes can not be scheduled
d) None of the mentioned

Q.3 A system is in the safe state if_____   (CO5)
a) the system can allocate resources to each process in sone order and still avoid a deadlock
b) there exist a safe sequence
c) all of the mentioned
d) none of the mentioned

Q.4 Memory management technique in which system stores and retrieves data from secondary storage for use in main memory is called?   (CO6)

a) Fragmentation   b) paging
c) mapping   d) none of the mentioned

Q.5 When the memory allocated to a process is slightly larger than the process, then _____   (CO6)
a) internal fragmentation occurs
b) external fragmentation occurs
c) both internal and external fragmentation occurs
d) neither internal nor external fragmentation occurs

Q.6 Which of the following command is used to count the total number of lines, words, and character contained in a file?   (CO9)
a) wc   b) wcount
c) countw   d) None of the above

Q.7 Sequential access method_____ on random access devices.
a) works well
b) Doesn't work well
c) maybe works well and doesn't work well
d) none of the mentioned

Q.8 The interval from the time of submission of a process to the time of completion is termed as_____ (CO2)
a) waiting time   b) turnaround time
c) response time   d) throughput

Q.9 Linux and Windows are the two types of_____   (CO9)
a) Input/output devices
b) Protocols
c) Sequential access memory
d) Operating systems

Q.10 GUI and CUI are the two types of_____ (CO1)
   a) Operating System   b) Hardware
   c) Text   d) Interface

SECTION-B

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

Q.11 List types of O.S. (CO1)

Q.12 Define schedulers? (CO3)

Q.13 Whenever a process is created, the O.S. Creates a PCB. (True/False) (CO2)

Q.14 PCB stands for_____. (CO2)

Q.15 Mutual Exclusion is a condition for deadlock. (True/False) (CO5)

Q.16 List various types of file system. (CO1)

Q.17 Memory is allocated to the requesting processes either contiguously or non-contiguously . (True/False) (CO6)

Q.18 PWD command in Linux is used for_____. (CO9)

Q.19 Write one example of dedicated devices.

Q.20 What is Virtual Memory? (CO7)

SECTION-C

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

Q.21 Explain any five operating system services. (CO1)

Q.22 What is difference between preemptive and non-preemptive scheduling? (CO3)

Q.23 List the various conditions for deadlock to occur. (CO5)

Q.24 Explain the five features of linux. (CO10)

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Q.25 Differentiate between dedicated and shared devices. (CO7)

Q.26 What are various memory management functions. (CO6)

Q.27 Discuss various steps of user interfaces provided by an os. (CO1)

Q.28 Discuss any three input devices in brief. (CO5)

Q.29 What are various file management functions. (CO6)

Q.30 What are the differences between Network operating system and Distributed operating system. (CO1)

Q.31 Explain any five file operations. (CO6)

Q.32 What is Deadlock? How it is prevented ? (CO3)

Q.33 Define shortest Job First (SJF) Scheduling algorithm. (CO3)

Q.34 Differentiate between Buffering and spooling? (CO1)

Q.35 Discuss Compaction in brief. (CO1)

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. (CO3)

Q.37 Explain the concept of paging in detail. (CO6)

Q.38 Explain the following Linux command with example:- (CO9)
   I) Is   ii) cd
   iii) date   iv) who
   v) cat

(**Note:** Course outcome/CO is for office use only)

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