Roll No_____   ID: 180831/170831/120831/030831

Semester: 3rd
Branch: Computer, IT, GE
Subject Name: Operating System

Time Allowed: 3Hrs   **M.M. 100**

Section-A

Note: Multiple choice questions. All questions are compulsory.   10X1=10

Q1   Name of deadlock avoidance algorithm?
   a) Banker's algorithm   b)   Round-robin algorithm
   c) First come first serve algorithm   d)   None of the above

Q2   The Situation where two or more process are reading or writing some shared data and the
      final results depends on the order of usage of the shared data, are called
   a) Race Condition   b)   Critical section
   c) Mutual Exclusion   d)   Dead Locks

Q3   Which command is used to create password of your linux system?
   a) Pwd command   b)   Passwd command
   c) Uid command   d)   Gid command

Q4   To access the service of the operating system, the interface is provided by the _____.
   a) Library   b)   System calls
   c) Assembly instruction   d)   API

Q5   A system is in the safe state if _____.
   a) The system can allocate resources to each process in some order and still avoid a
      deadlock
   b) There exist a safe sequence   c)   All of the mentioned
   d) None of the mentioned

Q6   The interval from the time of submission of a process to the time of completion is termed as
      _____.
   a) Waiting time   b)   Turnaround time
   c) Response time   d)   Throughput

Q7   How many states of a process are there?
   a) 6   b)   4
   c) 2   d)   Unlimited

Q8   Who developed linux software?
   a) Dennis M. Ritchie   b)   Linus torvalds
   c) Bjarne stroustrup   d)   Grace Murray Hopper

Q9   Memory management technique in which system stores and retrieves data from secondary
      storage for use in main memory is called
   a) Fragmentation   b)   Paging
   c) Mapping   d)   None of the above

Q10   Which command is used to make the directory in DOS?
   a) Del*.*   b)   MD
   c) RD   d)   Erase

Section-B

Q11   CMOS stands for.

Q12   _____ is an example of multi user operating system.

Q13   What is operating system?

Q14   Give name of any two operating system software's.

Q15   Linux is a command line interpreter   (True/False)

Q16   Mouse is _____ device.

Q17   Define schedulers?

Q18   Mutual Exclusion is a condition for deadlock.   (True/False)

Q19   What is Virtual Memory?

Q20   What is the difference between process and programs?

Section-C

Q21   What is process control block?

Q22   What are the advantages of partitioning?

Q23   Explain types and use of scanner.

Q24   What is a multitasking operating system?

Q25   What is a dead lock?

Q26   What is fragmentation?

Q27   What is a dot matrix printer?

Q28   What is a buffer?

Q29   What is difference between preemptive and non-preemptive scheduling?

Q30   What are the differences between Network operating system and Distributed operating system?

Q31   Define shortest Job First (SJF) Scheduling algorithm.

Q32   What is interrupt? How it is handled by OS.

Q33   Differentiate between Shortest Job first (SJF) scheduling and shortest Remaining Time Next (SRTN) scheduling.

Q34   What is Preemptive CPU scheduling? How it is different from Non Preemptive CPU scheduling.

Q35   Define Memory mapped I/O.

Section-D

Q36   Explain structure of Linux and also explain history of Linux.

Q37   What is scheduler? Explain various types of scheduler in detail.

Q38   What are deadlocks? How deadlocks can be avoided.