



- Q.5 In Unix, Which system call creates the new process?  
 a) fork  
 b) Create  
 c) new  
 d) None of the mentioned
- Q.6 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 mentioned
- Q.7 A set of processes is in deadlock if \_\_\_\_\_  
 a) each process is blocked and will remain so forever  
 b) each process is terminated  
 c) all processes are trying to kill each other  
 d) none of the mentioned.
- Q.8 The processes that are residing in main memory and are ready and waiting to execute are kept on this called \_\_\_\_\_  
 a) job queue                      b) ready queue  
 c) execution queue              d) process queue
- Q.9 The \_\_\_\_\_ swaps processes in and out of the memory.  
 a) Memory manager    b) CPU  
 c) CPU manager        d) User
- Q.10 \_\_\_\_\_ is the concept in which a process is copied into the main memory from the secondary memory according to the requirement  
 a) Paging                      b) Demand paging  
 c) Segmentation              d) Swapping

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### SECTION-B

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

- Q.11 What is operating system  
 Q.12 Define GUI  
 Q.13 What is the difference between process and programs?  
 Q.14 What is virtual memory?  
 Q.15 What is Process Control Block?  
 Q.16 What is deadlock?  
 Q.17 What is fragmentation?  
 Q.18 What is file?  
 Q.19 What is spooling?  
 Q.20 What is the difference between internal commands and external commands?

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions.

12x5=60

- Q.21 What is interrupt? How it is handled by OS  
 Q.22 What is Short-term scheduler(CPU scheduler) describes with diagram  
 Q.23 Differentiate between Shortest Job first (SJF) scheduling and Shortest Remaining Time Next (SRTN) scheduling.  
 Q.24 Define process. Draw the process life cycle & explain in briefly.  
 Q.25 What is Preemptive CPU scheduling? How it is different from Non Preemptive CPU scheduling.  
 Q.26 Explain deadlock detection & recovery.  
 Q.27 Write a short note on device controller.  
 Q.28 Define Memory mapped I/O

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