

# OPERATING SYSTEM BASED COMPUTER MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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**Q1.** With round-robin CPU scheduling in a time shared system

- a) using very large time slices degenerates into First-Come First Served Algorithm
  - b) using extremely small time slices improves performance
  - c) using very small time slices degenerate into Last-In-First-Out algorithm
  - d) using medium sized time slices leads to Shortest Request Time First algorithm.
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**Q2.** In semaphore when the order of processes that are waiting to be removed from the queue is first in first out (FIFO) then it is called

- a) Weak semaphore
  - b) Strong semaphore
  - c) Binary semaphore
  - d) None of these.
- 

**Q3.** With trap in process control

- a) Operating system determines the error or exception condition that is fatal.
  - b) Operating system interrupted for maximum allowable time.
  - c) Are tables that manage information process
  - d) None of these.
- 

**Q4.** In magnetic disk, density that is in bits per linear inch

- a) Increases in moving from the outer most track to the inner most track.
- b) Decreases in moving from the outer most track to the inner most track.
- c) Remains same in moving from the outer most track to the inner most track.

d) Randomly distributed in moving from the outer most track to the inner most track.

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**Q5.** MAR (memory address register)

- a) Contains data to be written into memory.
- b) Contains data to be read from memory.
- c) Specifies location in memory for next read/or writer.
- d) Contains address of next instruction to be fetched.

**Q6.** Following is the correct definition of a valid process transition within an operating system

- a) wake up : ready -> running
- b) dispatch: ready -> running
- c) block: ready -> blocked
- d) timer run out : ready -> blocked

**Q7.** Following is/are operating system used in computers

- a) MS-DOS
- b) OS/2
- c) UNIX
- d) All of the above

**Q8.** The operating system control tables maintains file table, because

- a) These tables manage I/O devices and channels of the computer system.

- b) These tables provide information about the existence of files, their location on secondary memory and their current status.
  - c) These tables provide information to manage process.
  - d) None of these.
- 

**Q9.** When an interrupt occurs, an operating system

- a) ignores the interrupt
  - b) always changes state of interrupted process after processing the interrupt
  - c) always resumes execution of interrupted process after processing the interrupt
  - d) may change state of interrupted process to blocked and schedule another process
- 

**Q10.** Thrashing can be avoided if

- a) the pages, belonging to the working set of the programs are in main memory
  - b) the speed of CPU is increased
  - c) the speed of I/O processor is increased
  - d) all of the above
- 

**Q11.** UNIX recognizes following I/O devices

- a) Disk and Tape drives
  - b) Terminals
  - c) Communication lines
  - d) All the above.
- 

**Q12.** Local replacement

- a) allows a process to select a replacement frame from the set of all frames
- b) requires that each process selects from only its own set of allocated frames
- c) both (A) and (B) above
- d) none of the above

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**Q13.** The total time to prepare a disk drive mechanism for a block of data to be read from it is

- a) seek time
- b) Latency
- c) latency plus seek time
- d) transmission time

**Q14.** In Responsive real time operating system

- a) The interruption is acknowledge and operating system response to interrupt.
- b) Once the operation starts no interrupt is acknowledge.
- c) The operation completes in fixed inter of time.
- d) None of these.

**Q15.** In two level scheme if each page is mapped by 4-byte (2 ) page table entry then to create a page table composed of  $2^{20}$  page table entry one requires

- a)  $2^{22}$  bytes
- b)  $2^{12}$  bytes
- c)  $2^{16}$  bytes
- d) None of these.

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**Answers to the above questions :**

**Q1. Answer: (a)**

**Q2. Answer: (b)**

**Q3. Answer: (a)**

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**Q4. Answer: (a)**

**Q5. Answer: (c)**

**Q6. Answer: (b)**

**Q7. Answer: (d)**

**Q8. Answer: (b)**

**Q9. Answer: (d)**

**Q10. Answer: (a)**

**Q11. Answer: (d)**

**Q12. Answer: (b)**

**Q13. Answer: (c)**

**Q14. Answer: (a)**

**Q15. Answer: (a)**

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