

AMCAT Memory and I/O Management Questions

Question 1: The hardware mechanism that allows a device to notify the CPU is called _____.

- A. polling
- B. interrupt
- C. driver
- D. controlling

Answer: Option B

Question 2: A process is thrashing if :

- A. it spends a lot of time executing, rather than paging
- B. it has no memory allocated to it
- C. it spends a lot of time paging, than executing
- D. None of these

Answer: Option C

Question 3: Thrashing _____ the CPU utilization.

- A. increases
- B. keeps constant
- C. decreases
- D. none of these

Answer: Option C

Question 4: The page table contains

- A. page offset
- B. base address of each page in physical memory
- C. page size
- D. none of the mentioned

Answer: Option B

Question 5: Run time mapping from virtual to physical address is done by

- A. Memory management unit
- B. CPU
- C. PCI
- D. none of the mentioned

Answer: Option A

Question 6: I/O hardware contains

- A. bus
- B. controller
- C. I/O port and its registers
- D. all of the mentioned

Answer: Option D

Question 7: 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

Answer: Option B

Question 8: Group A A. First-Come, First-Serve Replacement Algorithm B. Least Recently Used Replacement Algorithm C. Paging D. Buddy System Group B 1. Coalescing 2. Stack Algorithm 3. Belady's Anomaly 4. Thrashing

- A. A-2, B-3, C-1, D-4
- B. A-3, B-2, C-1, D-4
- C. A-3, B-2, C-4, D-1
- D. A-1, B-2, C-3, D-4

Answer: Option B

Question 9: Consider the following reference string – 4,7,0, 7, 1, 0, 1,2, 1, 2, 7, 1,2, 0 Calculate the difference between the number of page faults encountered when the optimal page replacement policy is used with 4 page frames and 3 page frames respectively

- A. 0
- B. 1
- C. 2
- D.3

Answer: Option B

Question 10:

- A.windows95 1.FAT16
- B.DOS 2.Redundancy
- C.RAID 3. NTFS
- D.UNIX o.s 4.Time sharing

Match the given operating system terms in GroupA with their characteristics in GroupB

- A. A-3 B-1 C-2 D-4
- B. A-3 B-4 C-1 D-2
- C. A-4 B-3 C-1 D-2
- D. A-1 B-3 C-2 D-4

Answer: Option B