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MCQ 1:

Logical data refers to the instruction or data stored in the _____.

Options:

- a) Hash table space
- b) Physical memory location
- c) Secondary memory location
- d) Process address space

Correct option: c) Secondary memory location

MCQ 2:

In Banker's algorithm, we can say that a system is in a _____ if all of the processes in the system can be executed to termination in some order.

Options:

- a) Reverse state
- b) Safe state
- c) Stop state
- d) Halt state

Correct option: b) Safe state

MCQ 3:

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The logical address generated by the CPU is divided into two parts: a page number (p) and a page offset (d) and is calculated by the following formula: p / d .

Options:

- a) p / d
- b) $p + d$
- c) $p \% d$
- d) $p * d$

Correct option: a) p / d

MCQ 4:

Suppose there are 32 number of frames so the number of bits needed for f is:

Options:

- a) 2
- b) 3
- c) 4
- d) 6

Correct option: None of the given options. (The correct answer would depend on the actual number of frames needed, not provided in the options)

MCQ 5:

In the Banker algorithm, we need the following data structures:

Options:

- a) Available, Min, Allocation, and Find
- b) Available, Max, Allocation, and Need
- c) Available, Min, Allocation, and First

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d) Available, Max, Allocation, and Next

Correct option: b) Available, Max, Allocation, and Need

MCQ 6:

Suppose there are 16 number of pages so the number of bits needed for p is:

Options:

- a) 1
- b) 2
- c) 3
- d) 4

Correct option: d) 4

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MCQ 7:

In the Banker algorithm, the Max data structure is used. If _____, then process P_i can request a maximum of k instances of resource type R_j .

Options:

- a) $\text{Max}[j, i] = k$
- b) $\text{Max}[i, k] = j$
- c) $\text{Max}[i, j] = k$
- d) $\text{Max}[k, j] = i$

Correct option: a) $\text{Max}[j, i] = k$

MCQ 8:

In the Banker algorithm, the Need data structure is used. If _____, then process P_i may need k more instances of resource type R_j to complete the task.

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Options:

- a) $\text{Need}[j, i] = k$
- b) $\text{Need}[i, k] = j$
- c) $\text{Need}[i, j] = k$
- d) $\text{Need}[k, j] = k$

Correct option: a) $\text{Need}[j, i] = k$

MCQ 9:

The address seen by the memory unit, i.e., the address loaded into the memory address register, is commonly referred to as the _____.

Options:

- a) Complex address
- b) Logical address
- c) Simple address
- d) Physical address

Correct option: d) Physical address

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