

DS_3_FH_22[co3]

Total points 10/10



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50

✓ 1]..... is the ability of multiple process to co-ordinate their activities 1/1
by exchange of information *

☒ Synchronization☐ Mutual Exclusion☐ Dead lock☐ Starvation

✓ 2]What are the characteristics of mutual exclusion using centralized approach ? * 1/1

- ☒ One processor as coordinator which handles all requests ✓
- ☐ It requires request,reply and release per critical section entry
- ☐ The method is free from starvation
- ☐ When responses are received from all processes, then process can enter its Critical Section

✓ 3]In distributed systems, election algorithms assumes that * 1/1

- ☒ a unique priority number is associated with each active process in system ✓
- ☐ there is no priority number associated with any process
- ☐ priority of the processes is not required
- ☐ none of the mentioned

✓ 4]According to the ring algorithm, links between processes are * 1/1

- ☐ bidirectional
- ☒ unidirectional ✓
- ☐ both (a) and (b)
- ☐ none of the mentioned



✓ 5]In distributed systems, a logical clock is associated with *

1/1

- ☐ each instruction
- ☒ each process ✓
- ☐ each register
- ☐ none of the mentioned

✓ 6]If timestamps of two events are same, then the events are *

1/1

- ☒ concurrent ✓
- ☐ non-concurrent
- ☐ monotonic
- ☐ non-monotonic

✓ 7]Consider the following statements about three phase distributed algorithm Statement 1: The three phase distributed algorithm is closely structured along the lines of Lamport's algorithm for mutual exclusion. Statement 2: This algorithm uses $3(n - 1)$ messages for $n - 1$ destinations *

1/1

- ☐ Statement 1 is true and statement 2 is false
- ☐ Statement 1 is false and statement 2 is true
- ☐ Both statements are false
- ☒ Both statements are true ✓



✓ 8]What are the parts of global unique identifier ? *

1/1

☒ Local unique time stamp



☐ Remote time stamp

☐ Clock number

☐ All of the mentioned

✓ 9] What are the characteristics of tightly coupled system ? i) Different clock ii) Use communication links iii) Same clock iv) Distributed systems *

1/1

☐ i

☐ i and iv

☐ i, ii and iii

☒ ii, iii and iv



✓ 10]Single coordinator approach has the following advantages : *

1/1

☐ Simple implementation

☐ Simple deadlock handling

☐ bottleneck

☒ All of the mentioned



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