

ALPHA COLLEGE OF ENGINEERING & TECHNOLOGYB.E.-4th YEAR (SEM-7) MID EXAM ODD - 2021-22

Distributed System (3170719)

DATE: 01/09/2021

TOTAL MARKS: 30

TIME: 09:30 am to 10:45 am

(Including taking snaps, making pdf & uploading)

Instructions:

1. Write **ENROLLMENT NUMBER & SIGN** on top right corner and **PAGE NO** on bottom right corner on each page of the answer sheet.
2. Q-1 is **COMPULSORY**.
3. Attempt any **TWO** Questions from Q-2, Q-3 & Q-4.
4. Make suitable assumptions wherever necessary and support your answers with neat sketch where ever possible.
5. Figures to the right indicate full marks.

- Q-1 a) Write the correct answer in the blank space/select from the given bulleted options. (10)**
- 1) Which of the following is goal of distributed system? (1)
a) Transparency b) Openness c) Scalability d) All of these
 - 2) Event based architectures can be combined with _____ architecture yielding what is also known as shared data spaces. (1)
a) Layered b) Object Based c) Data Centered d) None
 - 3) What is/are the Reasons for replication? (1)
a) Reliability b) Performance c) Both A& B d)None of above
 - 4) Types of name resolution mechanisms for flat names are____ (1)
a) Broadcasting b)Home-based approaches c) Distributed hash tables d) All of these
 - 5) A lowest-level domain, called a leaf domain, typically corresponds to a local-area network in a computer network in a computer network or a cell in a mobile telephone network. (1)
a) Top domain b) Bottom domain c) Leaf domain d) Root domain
 - 6) A synchronization subnet is _____ (1)
a) The collection of NTP servers on the internet b) An IP multicast group used for clock synchronization c) The set of machines addressed by an NTP server operating system d) The set of NTP servers with which you are currently synchronizing
 - 7) Clients have a time of 5:05 and a server has a time of 5:25.using Berkeley algorithm, the client's clock will be set to: (1)
a)5:15 b) 5:20 c) 5:25 d) 5:30
 - 8) Which of the following is not a distributed computing model? (1)
a)Processor-pool model b)Workstation server model c) Failure model d) peer-to-peer
 - 9) Logical extension of computation migration is _____ (1)
a) process migration b) system migration c) thread migration d) data migration
 - 10) A distributed system is defined as a collection of autonomous computers linked by a network with software designed to produce an integrated computing facility. (1)
a) True b) False c)Not sure d)None of above

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| Q-2 | a) What is a Distributed System? State any two Goals of distributes systems. | (3) |
| | b) Explain Stream- Oriented Communication. | (3) |
| | c) Explain RPC. | (4) |
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Q-3 |
a) Explain namespace, name resolution and name server. |
(3) |
| | b) What is a physical clock? | (3) |
| | c) Explain any two Data centric Consistency Models. | (4) |
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Q-4 |
a) What is code migration? Explain various reasons of code migration. |
(3) |
| | b) What is transparency? Explain various transparencies. | (7) |

----- ALL THE BEST -----