

Enrollment No: _____ Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name : Distributed Systems

Subject Code : 4TE08DSY1

Branch: B.Tech (CE)

Semester : 8

Date : 12/04/2017

Time : 02:30 To 05:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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- Q-1** Define Following Terms. **(14)**
- a) Distributed Operating System (DOS)
 - b) Cache Memory
 - c) Disk-full Workstation
 - d) Replication
 - e) Transparency
 - f) IPC
 - g) Orphan Call
 - h) Thrashing
 - i) Kernel
 - j) Network Operating System (NOS)
 - k) ARP Protocol
 - l) Transient Object
 - m) Mutable File System
 - n) Thread

Attempt any four questions from Q-2 to Q-8

- Q-2** **Attempt all questions** **(14)**
- a) Describe Processor-pool & Workstation Server Models of Distributed System.
 - b) Explain different Addressing Techniques of Client-Server Model.
- Q-3** **Attempt all questions** **(14)**
- a) List all transparency and explain different types of transparency.
 - b) Draw and Explain in Details microkernel and monolithic kernel approach.
- Q-4** **Attempt all questions** **(14)**
- a) What is process migration? What are the main steps involved in process migration.
 - b) What is ostrich algorithm? Explain Bully Election algorithm in detail.



