V-CCBSas) / Distributed Computing & Cloud Computing

May -2016.

QP Code : 26741

3 HOURS Total Marks: 80

N.B. 1. Question No. **1 is compulsory.**

2. Answer **any FOUR** from the remaining **SIX** questions

3. Figures to the right indicate full marks.

Q1a Attempt the following (any five) 10

i What are the issues in designing distributed systems?

i Explain Mutual Exclusion.

iii Name the various consistency models in distributed shared memory (DSM).

iv What is Virtualization?

v Name the benefits of service oriented computing.

vi Write a note on False sharing .

b What is cloud computing? What are the benefits of cloud models? 10

Q2a What is clock synchronization? Explain with a diagram, how logical clocks are implemented with counters and physical clocks. 08

b Discuss implementation of DSM systems . 07

Q3a Discuss Implementation of RPC mechanism. 08

b What are different address space transfer mechanism used in process transfer? 07

Q4 a Discuss various techniques of DFS implementation. 08

b Explain Load Balancing Model. 07

Q5a What is ordered message delivery? Compare the various ordering semantics for message passing. 08

b Discuss IPC in MACH. 07

Q6a What are the various consistency models in distributed shared memory (DSM)? 08

Discuss any one in detail.

b What is software oriented Architecture (SOA)? 07

Q7 Answer any three:

a Fault tolerance with respect to distributed systems 15

b Map reduce

c Grid computing versus cloud computing

d Discuss software as a service

e Group communication

YQ-Con. 7250-16.