2017

M.SC IN CS/IT

PAPER : CSIT-3.2/CSIT-502

DISTRIBUTED SYSTEM

FULL MARKS: 80 Time : 3 hours

{ The figures in the margin indicate full marks for the question.}

1. Answer the following (any five): **2 x 5 = 10**

a) Define distributed system.

b) What is message oriented transient communication?

c) What is the multiprocessor and multicomputer system?

d) What is access point?

e) What is address space?

f) What are the properties of true identifier?

2. Answer the following (any ten) : **3 x 10 = 30**

a) Describe about the client server communication

b) Difference between synchronous and asynchronous communication?

c) Differentiate between process and thread.

d) What is meant by group communication?

e) Explain Berkley algorithm for clock synchronization.

f) What is the difference between RMI and RPC?

g) Explain about physical clock and logical clock.

h) What is importance of virtualization in DS?

i) Differentiate between broadcasting and multicasting.

j) Illustrate the architectures for multi-threaded server?

k) Explain Names, Identifiers, and Addresses.

l) Differentiate between Weak mobility versus strong mobility.

3.Answer the following questios :(Any Three)

a) Explain the various design goals for distributed system with example

3 x 10 = 30

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b) Explain the details about Explain why replication is necessary for DS.

c) What do you mean by Code migration? Explain the Reasons for Migrating Code and also explain models of Code migration.

d) Explain about Two phase Commit protocol.

e) Write in brief about Bully election algorithm.

4) Write short notes (any two) : 2 x 5 = 10

i) Middleware

ii) Flat naming.

iii) Name Resolution

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