8E5003

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8E5003

B. Tech. VIII Sem. (Main) Exam., April, 2015
Computer Science & Engineering
8CS3 Distributed Systems

Time: 3 Hours **Maximum Marks: 80**

Min. Passing Marks: 24

Instructions to Candidates:

*Attempt any **five questions,** selecting **one question** from **each unit.** All questions carry **equal** marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.*

Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. NIL 2.NIL

UNIT – I

Q.1 What are the differences among cluster computing, grid computing and cloud computing? Explain. [16]

OR

Q.1 What are the goals behind developing distributed systems? Explain. [16]

UNIT – II

Q.2 (a) Can a server work as a client and a server in a system? Explain. [8]

(b) Is there any difference between vertical and horizontal fragmentation? Explain [8]

OR

Q.2 State the characteristics of a concurrent programming language. [16]

UNIT – III

Q.3 When do you prefer coda file system? Justify your answer. [16]

OR

Q.3 Explain the working of Bit Torrent file system with a neat diagram. [16]

UNIT – IV

Q.4 What do you understand by distributed deadlock handling? How is it different with centralized deadlock handling concept? [16]

OR

Q.4 What is a distributed pervasive system? Explain it with a suitable example and a neat sketch. [16]

UNIT – V

Q.5 Write short notes on **any two**:- [16]

(a) Byzantine Agreement

(b) CORBA Services

(b) Randomized Distributed Agreement

OR

Q.5 Explain the concepts of relocation, migration and failure transparency. [16]
