M. Tech.-III (Information Technology) (CBCS – 2015 Course) :
WINTER - 2018
SUBJECT: SELF-STUDY PAPER-I DISTRIBUTED COMPUTING

Day: Saturday
Date: 08/12/2018

W-2018-3241

Time: 11.00 AM TO 02.00 PM
Max. Marks: 60

N.B.:

1) All questions are **COMPULSORY**
2) Figures to the right indicate **FULL** marks.
3) Assume suitable data if necessary.
4) Both the section should be written in **SEPARATE** answer books.

SECTION-I

Q.1 What are advantages and disadvantages of distributed computing? What are different network resources available and how they are identified? **(10)**

OR

Q.1 Explain internet protocol suits applicable to distributed computing system. **(10)**

Q.2 What is the main difference between RPC model and an ordinary procedure call model? How is transparency achieved in RPC mechanism? **(10)**

OR

Q.2 What is distributed object? Explain design issues in distributed object model. **(10)**

Q.3 Explain following concurrency control methods. **(10)**
i) Locks ii) Optimistic concurrency control

OR

Q.3 Compare and contrast flat and nested distributed transaction . **(10)**

SECTION-II

Q.4 What are the elements involved in RPC implementation. **(10)**

OR

Q.4 What is stub? How are they generated? State there functionality and purpose. **(10)**

Q.5 Explain distributed shared memory architecture with suitable diagram. **(10)**

OR

Q.5 Explain thrashing in shared memory. **(10)**

Q.6 What are load sharing approaches? Also explain issues in designing load sharing algorithm. **(10)**

OR

Q.6 What are desirable features of a good process migration? And what are advantages of process migration. **(10)**

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