B. Tech. 7th Semester (IT) F. Scheme Examination,
December–2017
DISTRIBUTED OPERATING SYSTEM
Paper–CSE-423-F

Time allowed : 3 hours] [Maximum marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after the examination.

Note : *Attempt five questions.* **Question No. 1 is compulsory.** *Select one question from each section.*

1. (a) What is RPC ? http://haryanapapers.com

   (b) What is Atomic transaction ?

   (c) What is Processor Pool model ?

   (d) What is the need of consistency in distributed system ?

Section–A

2. (a) What do you mean by Distributed Operating System ? Explain its design issue.

   (b) Explain bus based multiprocessor and bus based multicomputer.

3. (a) What is ATM ? Describe ATM reference Model.

   (b) Describe Client-Server model.

Section–B

4. What is meant by clock synchronization ? Explain Mutual exclusion and Election Algorithm.

5. What is deadlock ? How it can be handled in Distributed system ? Explain.

Section–C

6. (a) What is real time distributed system ? Also explain design issue in real time distributed system.

   (b) What is thread ? Describe the thread usage.

7. (a) What are the latest trends in distributed file system? Explain.

   (b) What is file service interface ? Differentiate between a file service using upload/download model and one using the remote access model.

Section–D

8. What is distributed shared memory ? Describe different kind of shared memory multiprocessor.

9. Describe the concept of process management in MACH.