B.E. comp sem-II
Nov-Dec-2012

Total No. of Questions : 12] SEAT No. :

P918 [Total No. of Pages : 3

[4264] - 703
B.E. (Computer Engineering)
DISTRIBUTED OPERATING SYSTEMS
(2008 Pattern) (Semester - II)

Time : 3 Hours] *[Max. Marks : 100*

Instructions to the candidates :

1) *Answer three questions from each section.*
2) *Answers to the two sections should be written in separate answer-books.*
3) *Neat diagrams must be drawn wherever necessary.*
4) *Figures to the right indicate full marks.*
5) *Assume suitable data, if necessary.*

SECTION - I

Q1) a) What are the different elements involved in implementation of RPC mechanism? Explain role of each in RPC mechanism. **[6]**

b) Compare between multiprocessor operating system, Multicomputer operating system, network operating system and distributed operating system. **[10]**

OR

Q2) a) Why distributed operating systems more difficult to design than the operating system for centralized time sharing system? **[6]**

b) Explain the following with respect to distributed operating system. **[10]**

i) Message passing in RPC.
ii) Stub and skeleton in RMI.
iii) Buffering.
iv) Group communication.

Q3) a) Explain the following with respect to synchronization in distributed operating system. **[10]**

i) Clock skew.
ii) Drift rate.
iii) Causual ordering.
iv) Partial ordering.

b) Explain the vector clock in detail with implementation rules. **[6]**

OR

P.T.O.