

Total No. of Questions : 12]

P918

B.E. comp sem-II

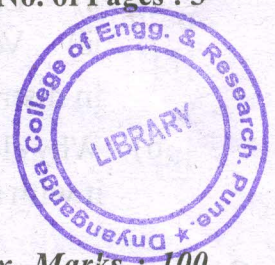
NOV-DEC-2012

SEAT No. :

[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) Causal ordering.
 - iv) Partial ordering.
- b) Explain the vector clock in detail with implementation rules. [6]

OR

P.T.O.

