

QP Code : 5173

(3 Hours)

[Total Marks : 80

N.B.: (1) Question 1 is **compulsory**.

(2) Write **any 3** questions from the remaining five.

(3) Figures to the right indicate full marks.

1. (a) What happens if two process detect failure of the coordinator simultaneously and both decide to hold election? Explain. 5
 - (b) What do you mean by marshalling of arguments and results in RPC? List the actions involved in marshalling 5
 - (c) Can persistence be maintained at the bean level? If so , how it is done? 5
 - (d) Comparision of NOS and DOS. 5
 2. (a) Explain the Lamport's happens before relation along with the conditions. How are Lamport's logical clocks implemented? 10
 - (b) Compare processes and threads. Explain user level and kernel level threads. What is the need of light weight threads? 10
 3. (a) Explain the need of client centric consistency models as compared to data centric consistency models. Explain any two client centric models. 10
 - (b) How deadlock detection is different for a disributed system? Explain any one algorithm for Distributed deadlock detection. 10
 4. (a) What are the reasons for migration of code? Explain the various models for code migration. 10
 - (b) Explain SOA lifecycle with diagram. Also state the advantages of SOA. 10
 5. (a) Explain RMI in CORBA by defining three level architecture jn CORBA. 10
 - (b) Give in detail steps required for developing an application using EJB framework with example. 10
 6. Write Shortnote On (Any two) 20
 - (a) Group communication
 - (b) Distributed Computing Models
 - (c) .NET architecture
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