

Time – 3 hrs.

Marks 80

- N.B.**
1. Question no.1 is compulsory.
 2. Attempt any 3 questions out of remaining 5 questions.
 3. Figures to the right indicate full marks.
 4. Assume suitable data wherever necessary.

- Q.1
- a Compare NOS and DOS 5 M
 - b What are various kind of message buffering techniques used in IPC. 5 M
 - c What are Roles in EJB? 5 M
 - d Explain Service Oriented Architecture (SOA) lifecycle with a diagram. 5 M
- Q.2
- a Describe the need for coordinator in distributed system. Demonstrate the working of Election algorithm. 10 M
 - b What are the components of CORBA? List the advantages of CORBA. 10 M
- Q.3
- a Describe desirable features of a good message passing system. 10 M
 - b Explain client centric consistency model in distributed system. 10 M
- Q.4
- a Explain migration in Heterogeneous system. 10 M
 - b Describe different distributed computing models. 10 M
- Q.5
- a Describe various transparencies in distributed system. 10 M
 - b Explain need of deadlock detection algorithm. Explain probe based distributed deadlock detection algorithm. 10 M
- Q.6 Write short note on (Any two) 20 M
- a Group communication
 - b .NET architecture
 - c RPC communication protocol
