

23110124

(3Hours)

[TotalMarks: 80]

N.B.: (1) Question No.1 is Compulsory.

(2) Attempt any three out of remaining five questions.

(3) Each Question carries 20 marks.

Q1) Attempt any four questions.

[20M]

a) Explain the features of a good message passing system?

[5M]

b) Explain the advantages of Process Migration?

[5M]

c) Explain in brief Berkeley Algorithm?

[5M]

d) What is the difference between RPC & RMI?

[5M]

e) What are applications of parallel computing?

[5M]

Q2)

a) What are the different types of distributed shared memory?

[10M]

b) What are the different types of operating systems? Discuss their advantages and disadvantages.

[10M]

Q3)

a) What are the components of SOA Architecture?

[10M]

b) Explain Ring algorithm in detail?

[10M]

Q4)

a) Write a short note on API for Internet Protocol?

[10M]

b) What are different types of message-forwarding mechanisms?

[10M]

Q5)

a) What are the different parallel algorithm models?

[10M]

b) Explain the implementation of the RPC mechanism?

[10M]

Q6) Solve any two questions

a) What are the major issues in designing a distributed operating system? [10M]

b) What are different models for organizing threads

[10M]

c) Draw and explain the Cloud Computing Architecture?

[10M]
