17635

21415

3 Hours / 100 Marks **Seat No.** | | | | | | | | |

Instructions : (1) All Questions are *compulsory*.

(2) Illustrate your answers with neat sketches wherever necessary.

(3) Assume suitable data, if necessary.

Marks

1. [A] Attempt any THREE : **12**

(a) Describe function of distributed operating system.

(b) Explain parameter passing with suitable example.

(c) Describe the concept of thread in distributed operating system.

(d) Explain Public Cloud Deployment Model.

(e) Explain home based locating mobile entities approach.

[B] Attempt any ONE : **6**

(a) Explain the RPC Architecture in detail.

(b) Describe identification method of server.

2. Attempt any FOUR : **16**

(a) Explain Homogenous Multicomputer System.

(b) Explain layered protocols with diagram.

(c) Explain client side software for distribution transparency.

(d) Describe types of synchronization requirement for interacting concurrent processes.

(e) Define Approaches to code migration.

(f) Explain in detail Saas (Software as a Service) SPI Model.

P.T.O.

3. Attempt any FOUR : **16**

(a) Explain key challenges of RPC.

(b) Describe Agent Technology.

(c) Discuss problems of unreferenced object in naming.

(d) Explain the different problem to adopt cloud computers in enterprises.

(e) Explain the Client Server Architecture.

4. [A] Attempt any THREE : **12**

(a) Describe Heterogeneous Multi Computer System.

(b) Explain implementation of Name resolution with advantages & disadvantages.

(c) Explain grid computing concept with suitable example.

(d) Describe persistent Vs Transient communication.

[B] Attempt any ONE : **6**

(a) Describe code migration in Heterogeneous system.

(b) Explain the role of operating system in Cloud Environment.

5. Attempt any TWO : **16**

(a) Explain classification of Software Agent.

(b) Describe in detail reference counting with advantages & disadvantages.

(c) Describe Grid Computing Architecture with neat labelled diagram.

6. Attempt any FOUR : **16**

(a) Explain stream synchronization.

(b) Differentiate between user level thread and kernel level thread.

(c) Describe Network Operating System.

(d) Explain Domain Name System.

(e) Differentiate between Grid computing and Cloud computing.

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