

17635

11920

3 Hours / 100 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.
 - (5) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE :

20

- (a) Explain distributed system with advantages.
- (b) List layered protocols. Explain any two protocols in detail.
- (c) Describe Remote object Invocations parameter passing.
- (d) Explain in detail use of Kernel in operating system.
- (e) What is Thread in process ? Explain with diagram and two advantages.
- (f) What is Naming entities & names identifiers ? Explain with example.
- (g) Explain Grid computing with two advantages.

2. Attempt any FOUR :**16**

- (a) Differentiate between multiprocessor system and distributed system. (Any 4 points)
- (b) Explain RPC parameter passing with example.
- (c) Describe DCE remote object & Java RMI.
- (d) Explain Thread in Distributed system.
- (e) Explain the method of implement name resolution.
- (f) Explain public and private cloud deployment model.

3. Attempt any FOUR :**16**

- (a) Describe application layering.
- (b) Explain in brief RPC operation.
- (c) Explain client-side software for distribution transparency.
- (d) What is user level & Kernel level Thread in DOS ?
- (e) Compare naming V/s locating entities. (Any 4 points)
- (f) Explain cloud computing with architecture.

4. Attempt any FOUR :**16**

- (a) Explain Client – Server model with diagram.
- (b) Difference between Static Vs Dynamic Remote Invocation. (Any 4 points)
- (c) Explain issues of Server General Design.
- (d) Describe problem of unreferenced object.
- (e) Explain how to identifying unreachable entities.
- (f) Explain SPI framework for cloud computing :
 - (i) PAaS (ii) IAaS

5. Attempt any FOUR :**16**

- (a) Differentiate between message oriented communication and stream oriented communication. (Any 4 point)
- (b) Explain Network operating system's work in detail with example.
- (c) Explain how quality of services can be achieved in stream oriented communication.
- (d) Describe Migration in Heterogeneous system.
- (e) Differentiate between Home based approaches & Hierarchical approaches. (Any 4 point)
- (f) Explain Impact of cloud computing on users.

6. Attempt any FOUR :**16**

- (a) How to recover barriers of cloud computing adoption in enterprises ?
 - (b) Describe reference counting and reference listing.
 - (c) Differentiate between multiprogramming and multitasking OS. (Any 4 point)
 - (d) Explain any four services of distributed operating system.
 - (e) Describe in detail Agent Technology.
 - (f) What are the object server ? How they are needful ? Explain it.
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