

17635

11819

3 Hours / 100 Marks

Seat No.

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

Marks

1. **Attempt any FIVE :**

5 × 4 = 20

- (a) Define distributed operating system with it's features.
- (b) Explain static v/s Dynamic Remote Invocations.
- (c) Explain the process & thread in distributed operating system.
- (d) Describe any two naming entities with advantages.
- (e) Explain Impact of cloud computing on user.
- (f) Explain key challenges of RPI.
- (g) Explain software agents in Distributed system.

2. **Attempt any FOUR :**

16

- (a) Describe network operating system with suitable example.
- (b) Differentiate between cloud & grid computing.
- (c) Describe user level & Kernel level threads in Distributed operating system.
- (d) Explain naming V/s locating entities.
- (e) Describe low level & higher level protocol.
- (f) Explain RPC with parameter passing.

- 3. Attempt any FOUR :** **16**
- (a) Differentiate between Homogeneous & Heterogeneous multicomputer system.
 - (b) Explain Remote object invocation with example.
 - (c) Describe Hierarchical approaches over home based approaches for locating mobile entities.
 - (d) Explain general design issues of object server.
 - (e) Explain the role of operating system in grid computing.
 - (f) Explain approaches to code migration.
- 4. Attempt any FOUR :** **16**
- (a) Explain client & server architecture with advantages.
 - (b) Explain different form of communication in message oriented system.
 - (c) Explain code migration in Heterogeneous system.
 - (d) Write down simple solution for locating mobile entities.
 - (e) Explain the concept of domain name system in detail.
 - (f) Discuss governance in the cloud computing.
- 5. Attempt any FOUR :** **16**
- (a) Explain any four issues in design of distributed operating system.
 - (b) Differentiate between message and stream oriented communication.
 - (c) Explain Advantages & Disadvantages of code migration.
 - (d) What is reference listing and identifying unreachable entities ?
 - (e) Explain IaaS SPI framework for cloud computing.
 - (f) Explain parameter passing in remote object invocation.
- 6. Attempt any FOUR :** **16**
- (a) Explain how DOS different from OS with advantages.
 - (b) Describe quality of services in stream oriented communication.
 - (c) Write three methods to handle code migration.
 - (d) What is recursive name resolution.
 - (e) Explain private & Hybrid cloud Deployment model.
 - (f) Explain Advantages of agent technology.
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