17635

15162 3 Hours / 100 Marks

Seat No.

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.

		Ma	rks
1.	Attempt any FIVE :		20
	(a)	Write down the goals of distributed operating system.	
	(b)	Describe basic RPC operations.	
	(c)	Explain about low level protocol.	
	(d)	Describe the concept of threads in distributed system.	
	(e)	Enlist SPI model and describe any one in details.	
	(f)	What is recursive name resolution ?	
	(g)	Differentiate between process and threads.	
2.	Atte	empt any FOUR :	16
	(a)	Define and illustrate about distributed system.	
	(b)	Describe about middleware concept.	
	(c)	Explain different forms of communication in message oriented communication	n.
	(d)	Write three ways to handle code migration.	
	(e)	Explain how implementation of name space is done.	
	(0)		

(f) State about different cloud deployment models.

3. Attempt any FOUR :

- (a) Write down the advantages of distributed operating system over centralized operating system.
- (b) Explain the process of static Remote Invocation.
- (c) Explain how quality of service can be achieved in stream oriented communication.
- (d) What are the various alternatives of code migration ?
- (e) What is reference listing and reference counting ?
- (f) Explain the elements of Grid computing system.

4. Attempt any FOUR :

- (a) What are the issues concerned with parameter passing in RPC system ?
- (b) Describe client side software for distribution transparency.
- (c) Explain client to server binding.
- (d) Describe the simple solutions for locating entities.
- (e) Explain Hierarchical location services for locating mobile entities.
- (f) Describe Grid architecture with neat diagram.

5. Attempt any FOUR :

- (a) Describe the concept of Homogenous multicomputer system.
- (b) Write down the design issues for RMI.
- (c) Write a note on agent technology.
- (d) Describe the problem of unreturned objects.
- (e) Describe the impact of cloud computing on users.
- (f) Mention difference between cloud computing and grid computing.

6. Attempt any FOUR :

- (a) Write down difference between distributed operating system and network operating system.
- (b) Describe distributed objects with working of client side.
- (c) Describe general architecture of message queuing system for persistence communication.
- (d) Describe migration in heterogeneous system.
- (e) Explain software agents in distributed system.
- (f) Describe home based approaches for locating Mobile Entities.

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