17635

16117 3 Hours / 10	0 Marks Seat No.
(2) (3) (4) (5)	 All Questions are <i>Compulsory</i>. Answer each next main Question on a new page. Illustrate your answers with neat sketches wherever necessary. Figures to the right indicate full marks. Assume suitable data, if necessary. Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. a) Attempt any THREE of the following:

- Define distributed system. What is multiprocessor system? (i)
- (ii) What is meant by Application layering?
- (iii) What is stream Synchronization? Explain in brief.
- (iv) Explain basic RPG operation.
- Write in brief a note on threads in distributed systems? (v)

b) Attempt any ONE of the following:

- (i) What is meant by message oriented communication?
- What is a software agent? Explain the role of software (ii) agent in distributed system.

12

6

2.		Attempt any FOUR of the following:	16
	a)	What is the difference between distributed operating system and network operating system.	
	b)	Compare static and dynamic remote invocation.	
	c)	What is RMI? Explain with sample code.	
	d)	What are object servers? How they are useful?	
	e)	What is name space? Give example.	
	f)	What is the impact of cloud computing on users.	
3.		Attempt any FOUR of the following:	16
	a)	Explain client-server Architecture with proper sketch.	
	b)	What are layered protocols? Explain.	
	c) What are general design issues of server?		
	d)) Compare naming v/s locating entities?	
	e)	Compare grid computing and cloud computing.	
4. a)		Attempt any <u>THREE</u> of the following:	12
		(i) Write a note on middle ware.	
		(ii) Explain in brief remote object invocation.	
		(iii) What is the criteria of client side software for distribution transparency?	
		(iv) What are the problems of unreferenced object?	
	b)	Attempt any <u>ONE</u> of the following:	6
		(i) What are home based and Hierarchical approaches for locating mobile entities.	
		(ii) Explain an architecture of grid computing.	

Marks

5.		Attempt any <u>TWO</u> of the following:	16
	a)	Explain RPC in detail.	
	b)	Explain code migration approaches.	
	c)	Explain SPI framework for cloud computing.	
6.		Attempt any FOUR of the following:	16
	a)	What are homogeneous and heterogeneous multicomputer system?	
	b)	What are the local resources for code migration?	
	c)	Write in short on identifying unreachable entities.	
	d)	What are the barriers to cloud computer adoption in enterprises?	
	e)	Explain implementation of name resolution with advantages	

e) Explain implementation of name resolution with advantages and disadvantages.