Seat No.:	
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NB-146

December-2015

5th Year M.Sc., CA & IT

Distributed Operating System

Time: 3 Hours] [Max. Marks: 100

1. Answer in short : (Any **ten**)

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- (1) Define tightly coupled system.
- (2) State two differences between minicomputer model and processor pool model.
- (3) What is DTS in DCE? How does it function?
- (4) What are VBR and CBR? Give at least one example of each.
- (5) What is the total length of SONET packet? Out of which how many bytes are used for overhead?
- (6) What is the size of HEC? What does it contains?
- (7) Is class C delay sensitive? Yes or No? Does it also require connection orientation?
- (8) What is peak-rate allocation method? Where does it used?
- (9) Draw two paradigms of IPC.
- (10) Explain structural information field of basic IPC message structure.
- (11) Why interrupt is used in IPC synchronization?
- (12) Define *m-out-of-n-reliable* and *0-reliable* of multicast communication.
- 2. Answer the following:

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- (1) Call semantics in RPC.
- (2) RRA algorithm.
- (3) Transparency of RPC.
- (4) RPC messages.

3.	Ans	Answer any four :	
	(1)	Explain Granularity.	
	(2)	Replacement strategy.	
	(3)	Passive time server centralized algorithm.	
	(4)	Centralized approach for mutual exclusion.	
	(5)	Hierarchical approach for deadlock detection.	
4. Answer any four :		wer any four :	20
	(1)	Basic idea behind task assignment approach.	
	(2)	Centralized versus distributed load balancing approach.	
	(3)	Write a short note on process transfer policies.	
	(4)	List out desirable features of a good process migration mechanism.	
	(5)	Write a short note on model for organizing threads.	
5.	Ans	Answer any two :	
	(1)	Object locating mechanisms in naming.	
	(2)	Explain system oriented names.	
	(3)	Write a short note on file sharing semantics.	

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