DHARMSINH DESAI UNIVERSITY, NADIAD FACULTY OF TECHNOLOGY

B.TECH. SEMESTER VII [Information Technology]

SUBJECT: (IT 715) Distributed Computing

Examination : BLOCK Sessional - Reg Seat No. :

INSTRUCTIONS:

- 1. Figures to the right indicate maximum marks for that question.
- 2. The symbols used carry their usual meanings.
- 3. Assume suitable data, if required & mention them clearly.
- 4. Draw neat sketches wherever necessary.

Q.1	Do as directed.	[12]
	 (a) List out and explain functions used for locking and unlocking of semaphore (b) Explain inet_ntop and inet_pton function along with their function argument. (c) List out advantages of SOAP over IIOP. (d) Write down scenario where "SO_BROADCAST" can be applied? And also write 	[02] [02] [02] [02]
	Function to do so?	F021
	(e) Explain ARP and RARP.	[02]
	(f) List out scenario where SOA can't be used.	[02]
Q.2	Attempt following questions.	[12]
	(a) Explain each and every system call required to implement echo client-server program using TCP.	[06]
	(b) Write a program for file transfer client- server using shared Memory.	[06]
Q.3	Attempt following questions	[12]
Ž.	(a) Write down steps to create Webservice using contract first and it should follow document literal approach along with its deployment and how to test the implemented webservice.	[06]
	(b) Explain following paradigms: 1) Remote Method Invocation 2) Mobile Agent 3) Object Space.	[06]