DHARMSINH DESAI UNIVERSITY, NADIAD
FACULTY OF TECHNOLOGY
B.TECH. SEMESTER VII [Information Technology]
SUBJECT: (IT 717) Distributed Computing

Examination	: Online First Sessional	**Seat No.**	:
Date	: 04/08/2021	**Day**	: Wednesday
Time	: 01:45 PM to 02:30 PM	**Max. Marks**	: 16

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.2	Attempt Any Two of the following questions.	**[08]**
(a)	Explain the need of XML schema with an example.	**[04]**
(b)	i) Explain the use of Namespace. Differentiate between targetNamespace and DefaultNamespace. [02]	**[04]**
	ii) Discuss the concept of Value Result Argument. [02]	
(c)	Draw and discuss the concept of TCP connection Termination Sequence along with Time_Wait State concept.	**[04]**
Q.3	Attempt following questions	**[08]**
(a)	Write down XML schema definition for Purchase Order for any product with followings. i) A Customer supports value like: Name, Address, Email and Contact Number ii) Product supports value like Product_Id, Product Name, price. Use appropriate Restriction on values	**[04]**
(b)	Write a client-server application where irrespective of underlying transport layer protocol, the user applications on either end must confirms the receipt of data received to the application of other end and vice-versa. In this application client will send the radius of circle and server will reply with the area of circle and client must display the calculated area on the screen.	**[04]**

OR

Q.3	Attempt following questions	**[08]**
(a)	(1) Write down XML schema definition for A Cricket Team with followings. i) A Player supports value like : Name, Age, Gender, Team ii) Player ListType, where List supports values: Batsman, Bowler, All-rounder. User appropriate Restriction on values.	**[04]**
(b)	Write a echo client – server application with use of UDP protocol at transport layer and before server reply with echo it must display the ip address and port number of client on server's console.	**[04]**