GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER– IV   EXAMINATION – WINTER 2019
Subject Code: 4649301   **Date: 22-11-19**

Subject Name: Computer Networking

Time: 10:30 AM TO 01:00 PM   **Total Marks: 70**

Instructions:
1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	**(A)**	**Write any seven within one or two sentences**	**(07)**
	1)	What is Ethernet?	
	2)	What is TCP /IP?	
	3)	What is byte stuffing?	
	4)	What is Demodulation?	
	5)	What is Circuit Switching?	
	6)	Define Spectrum.	
	7)	What is ALOHA?	
	8)	What is OSI?	
	(B)	**Diffentiate Following**	
	1)	Twisted Pair Wire Vs Coaxial Cable	**(02)**
	2)	LAN Vs PAN	**(02)**
	3)	FDM Vs TDM	**(03)**
Q.2	**(A)**	**Define following questions in brief**	
	1)	What is Electro Magnetic Spectrum?	**(02)**
	2)	What is Private IP Address?	**(02)**
	3)	What is MAC Address?	**(02)**
	4)	What is Piggy Backing?	**(01)**
	(B)	What is mean by Elementary Data Link Protocols? Explain Utopian Simplex Protocol in detail	**(07)**
		OR	
	(B)	Explain Sliding Window protocol with example	**(07)**
Q.3	**(A)**	Define static channel allocation and Dynamic Channel allocation in detail	**(07)**
	(B)	Define Ethernet physical Layer and define architecture of classic Ethernet.	**(07)**
		OR	
Q.3	**(A)**	What is Framing? Explain Error Detection Codes in detail	**(07)**
	(B)	Define Carrier Sense Multiple Access Protocol in detail	**(07)**
Q.4	**(A)**	What is the use of Routing Algorithm? Explain Flooding in detail	**(07)**
	(B)	Define the approaches of Congestion Control in brief.	**(07)**
		OR	
Q.4	**(A)**	Explain the elements of transport protocol	**(07)**
	(B)	What is UDP? Define Remote procedure call in detail.	**(07)**
Q.5	**(A)**	What is DNS? Define internet domain name space.	**(07)**

(B) Explain Architecture of E Mail system in detail. **(07)**

OR

Q.5 **(A)** Define the architecture of WWW. **(07)**

(B) Define following terms **(07)**
1) Static Web Pages 2) HTML Web pages 3) Dynamic Web Pages
4) Mobile Web

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