GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VI (OLD) EXAMINATION – WINTER 2018

Subject Code:161704   **Date: 27/11/2018**

Subject Name: Analog And Digital Communication

Time: 02:30 PM TO 05:00 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)**	Explain Amplitude Modulation in detail.	**07**
	(b)	Explain Frequency Modulation in detail.	**07**
Q.2	**(a)**	Explain OSI Model.	**07**
	(b)	Explain data topologies in detail.	**07**
		OR	
	(b)	Explain block diagram of communication system.	**07**
Q.3	**(a)**	Explain Pulse modulation and its types in detail.	**07**
	(b)	Explain token passing method used in IEEE 802.5	**07**
		OR	
Q.3	**(a)**	Explain principle and construction of fibre optic cable.	**07**
	(b)	Explain SONET.	**07**
Q.4	**(a)**	Explain CSMA/CA protocol used for wireless LAN.	**07**
	(b)	Explain PSK and FSK.	**07**
		OR	
Q.4	**(a)**	Explain R232C communication standard.	**07**
	(b)	Explain error detection codes in detail with example.	**07**
Q.5	**(a)**	Explain Hamming Code.	**07**
	(b)	Explain different type of noise.	**07**
		OR	
Q.5	**(a)**	Derive the modulation index for AM.	**07**
	(b)	Explain Satellite communications.	**07**

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