Roll No. .....

## 24042

## B. Tech. 3rd Semester (IT) Examination – December, 2018

	Paper	: EE-217-F			
Time : T	hree Hours ]	[ Maximum Marks : 10			
been supp	0 ,	mdidates should ensure that they ha plete question paper. No complaint r examination.			
	. , .	ons in all, selecting one questic Question No. 1 is compulsor equal marks.			
<b>1</b> . (a)	What is Nyquist C	riteria ?			
(b)	Define Delay disto	rtion.	,		
(c)	Design Hamming	Code for 1010.			
(d)	Define Asynchrone	ous Transmission.			
(e)	What do you mea Burst length with s	n by Burst Error ? Also defin suitable example.	n		

## SECTION - A

 (a) Explain the block diagram of communication system.

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3.		Discuss various signal properties in detail.  What are sign waves? Expand sign waves we the help of Fourier series.	10 vith 10	(b	What do you mean by multiplexing Explain Frequency Division Multiplexing (FDM in detail. 10
	(b)	Define Bandwidth. How Bandwidth effects digital signal.  SECTION – B	the 10	<b>8</b> . (a	) A series of 8 bit data 11010101 is transmitted. Do CRC generation process with the help o generator polynomial given as 1101.
4.	(a)	Define modulation. Explain Freque Modulation (FM) in detail.	ncy 10	(b <b>9</b> . W	o) Discuss Huffman encoding with the help of example.  Trite short notes on the following:
	(b)	Explain various Data Encoding techniques we the help of waveforms.	vith 10	(a (b	) Public Key Cryptography 10 ) Data Compression 10
<b>5</b> .	(a)	Write briefly about physical layer interference Explain any <i>one</i> in detail.	ace. 10		
	(b)	What do you mean by Transmission medi Discuss Co-axial cable and fibre opticable wireline communication medium.			
		SECTION - C	-		http://haryanapapers.com
6.		Discuss various circuit switching techniques.  Write briefly about simplex protocol and st and-wait protocol.	10 top- 10		Whatsapp @ 9300930012 Your old paper & get 10/- पुराने पेपर्स भेजे और 10 रूपये पार्य, Paytm or Google Pay से

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7. (a) Discuss PSTN in detail.