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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY THIRD SEMESTER B.TECH DEGREE EXAMINATION, JULY 2017

Course Code: **IT 203** Course Name: **DATA COMMUNICATION (IT)**

Max. Marks: 100

Duration: 3 Hours

PART A

Answer any two questions.

1.	a. Differentiate between synchronous transmission and asynchronous transmission.(5		
	b. Encode the given digital data 10110010 using NRZ-L,NRZ-I,AMI, Manches	ster and	
	differential Manchester encoding schemes?	(5)	
	c. What is noise? What are the various types of noise?	(5)	
2.	Describe any three guided media used for data transmission.	(15)	
3.	a. What are the transmission impairments happening in data communication?	(10)	
	b. Determine the channel capacity of a medium with bandwidth 4kHz and SNR	8 30 dB.	
		(5)	
	PART B		
	Answer any two questions.		
1	a What is multiplaying? Explain EDM TDM	(10)	

(5)
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(5)
(10)
(5)

PART C

Answer any two questions.

7.	a. Compare packet switching and circuit switching.	(10)
	b. Explain GSM and GPRS technologies with neat sketches.	(10)
8.	a. Explain error handling using Hamming codes with necessary example.	(10)
	b. Describe about CRC encoding and decoding.	(10)
9.	a. Explain in detail about Wi-Fi and WiMax.	(10)
	b. What are BCH codes and RS codes? Explain.	(10)
