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IV Semester Diploma Examination, April/May-2017

DIGITAL COMMUNICATION

Tir	me : 3 Hours]	Max. Marks: 100		
No	te: (i) Answer any six questions from Part-A. (ii) Answer any seven full questions from Part-B.			
	PART – A			
1.	Compare analog and digital communication systems.	BETA CONSOLE!		
2.	Define quantization and quantization noise.	Diplom 5 [All Branches]		
3.	Write a brief note on companding process.	5		
4.	What is digital modulation? Name types of digital modulation technical	Diploma Question Papers [2015-19] Beta Console Education 5		
5.	Mention the merits and demerits of DPSK.	5		
6.	What is multiplexing? Write the advantages of multiplexing.	5		
7.	Describe briefly about an error and name the types.	5		
8.	What do you mean by transmission media? And name the types.	5		
9.	List the advantages of an optical fiber.	5		
	1 of 2	Turn over		

PART – B

10.	Ехр	lain briefly the functional block diagram of digital communication s	ystem. 10
11.	(a)	Describe the generation of PWM.	5
	(b)	Mention the merits and demerits of PWM.	5
12.	Exp	lain briefly the delta modulation system with block diagram and its.	mention it's 10
13.	(a)	Describe briefly the binary ASK with the help of waveforms.	5
	(b)	Explain briefly the non-coherent detection of binary ASK.	5
14.	Des	cribe briefly the Generation and detection of DPSK signal.	BETAICONSOLE
15.	(a)	Write briefly about CDMA technique.	Diploma - [All Branches] Bet Sonsole Education
	(b)	Compare TDMA with FDMA.	5
16.	(a)	Write a brief note on TDMA.	Diploma Question Papers [2015-
	(b)	Describe parity bit check coding method.	Beta Consols Education
17.	(a)	Write a brief note on CRC coding method.	5
	(b)	Explain ARQ error control scheme.	5
18.	(a)	Compare LED and Semiconductor LASERs.	5
	(b)	Describe the numerical aperture and angle of acceptance.	5
19.	Des	cribe the block diagram of an optical fiber communication system.	10