

Code No: PT32052

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## III B. Tech II Semester (Substitute Subject) Regular/ Supply Examinations, April - 2018 **DATA COMMUNICATION**

(Common to CSE and IT)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answering the question in Part-A is compulsory

3. Answer any THREE Questions from Part-B 

## PART –A

1	a)	Explain Peer-to-Peer client/server network.	[4M]
	b)	Write a note on Transverse Electromagnetic wave.	[4M]
	c)	List and explain the four most common methods of pulse modulation.	[4M]
	d)	Define Electromagnetic Radiation.	[3M]
	e)	List the features of personal communication system.	[3M]
	f)	Define data communication modems and tell why they are used in data communications circuits.	[4M]
		PART –B	
2	- )		[0] <b>/</b> ]
2	a)	Explain briefly about standards organization for data communication.	[8M]
	b)	Define digital modulation? Give a brief description of amplitude-shift keying and frequency-shift keying.	[8M]
3	a)	Draw the electromagnetic frequency spectrum and explain it.	[8M]
	b)	Write the advantage and disadvantages of optical fiber comparison.	[8M]
4	a)	Define signal voltage-to-quantization noise ratio. Determine the SQR for	[8M]
	1 \	Linear PCM Code.	
	b)	Define T Carrier system? Describe a T1 carrier system.	[8M]
5	a)	Draw the block diagram of microwave Radio link and explain it.	[8M]
	b)	Write the advantages and disadvantages of Geosynchronous satellite.	[8M]
6	a)	Briefly describe the basic functions of a standard telephone set.	[8M]
0	b)	Describe the united states digital cellular system.	[8M]
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7	a)	Define POSTNET. How logic 0s and 1s indicated with the POSTNET base code	[8M]
	b)	Give the difference between asynchronous and synchronous modems.	[8M]
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