PART, p



C-16S-EC-404

# 5651

## BOARD DIPLOMA EXAMINATION, (C-16S)

JUNE / JULY - 2020

# DECE - IV SEMESTER EXAMINATION DIGITAL COMMUNICATION

Time: 2 Hours]

[Total Marks: 80

### PART - A

5×6=30

Instructions: (1) Answer any SIX questions.

- (2) Each question carries FIVE marks.
- (3) Each answer should not exceed more than one page.
- 1 Define Information capacity of a channel and write the expression, 6
- 2 Define bit rate and dynamic range for PCM system 4
- 3 Define bit overhead and overhead efficiency 4.
- 4 What is the need for start and stop bits ?
- 5/ Define ASK. Draw the waveforms. 2
- 6 What are the application areas of digital modulation techniques ?
- 7 What is the need for modem?
- 8 Explain the need for multiplexing 4
- 9 List the advantages of electronic telephony over manual telephony.
- Write the difference between packet switching and circuit switching. 2.

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| Contd...

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		rani, B	10×5≔50	0
Instr	uctions :	<ol> <li>Answer any FIVE questions.</li> <li>Each question carries TEN marks.</li> <li>Each answer should not exceed more to pages.</li> </ol>	han TW(	o
, <b>и</b> ́	(a) Explain (b) List the	n Delta Modulation with block diagram.  e advantages of Delta modulation over PCM.	5	
12	(a) List the (b) Explain example	e four digital signal encoding formats.  n NRZ and RZ line coding techniques with les.	4 6	3
	commu	error defection and correction in digital inication.  In the retransmission method of error correction	. 5	3
14 Explain FSK modulator and demodulator with relevant block diagrams and waveforms.				
15 Draw and explain BPSK modulator and demodulator with block diagram.				
,16	Explain the	process of TDM and mention its applications.	5	
17/	Explain (SD)	N. 2		

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Explain the features of SS7 system in signaling.