END SEMESTER EXAMINATION

SEMESTER- IV(BACKLOG)

COURSE CODE : CSE 404 **DURATION : 3 (THREE)HRS**
COURSE TITLE : COMMUNICATION THEORY **MAXIMUM MARKS : 75**
SESSION : JUL-DEC'2021 **PASS MARKS : 35 %**

NOTE: *1. Attempt any **5 (five)** questions.*
2. Mark for each question is shown against it.
3. Assume suitable logical data wherever necessary.

1.	**(a)**	What is data communication? What are the basic properties of data communications?	**(1+4)**
	(b)	Distinguish between the digital and analog communications.	**(5)**
	(c)	Why modulation is used communication.	**(5)**
2.	**(a)**	Differentiate between FSK and PSK.	**(4)**
	(b)	Write a short on the square law demodulator.	**(6)**
	(c)	What are the various topologies used in communication channels.	**(5)**
3.	**(a)**	With the help of block diagram explain the high level AM transmitter.	**(5)**
	(b)	Describe about the basic super heterodyne radio receiver.	**(5)**
	(c)	Write the different types of channels used for digital communications.	**(5)**
4.	**(a)**	What are the characteristics of good AM receiver?	**(3)**
	(b)	Distinguish between narrowband FM and wideband FM	**(5)**
	(c)	What is FR mixing	**(2)**
	(d)	Define a teleprinter? What are the salient features of a teleprinter?	**(4)**
5.	**(a)**	Write the various applications of FM transmitter	**(5)**
	(b)	Define telegraphy? Explain the history of telegraphy.	**(1+5)**
	(c)	Write a note on basic elements of PCM.	**(4)**
6.	**(a)**	Different types of codes used in telegraphy techniques.	**(4)**
	(b)	Define the time division multiplexing	**(4)**
	(c)	What is quantization? And what are the different types of quantization.	**(4)**
	(d)	Differentiate between FDM and TDM	**(3)**
7.	**(a)**	Explain the different types of digital modulation technique?	**(10)**
	(b)	Explain the different transmission media in digital communication	**(5)**
8	**(a)**	What are the building blocks of the digital communication system?	**(3)**
	(b)	What are the three different types of communication channel?	**(3)**
	(c)	What are the various types of modulation, with the help of suitable diagram explain it.	**(5)**
	(d)	Write short notes on telephone instruments.	**(3)**