



PART – B

(5 x 13 = 65 Marks)

Q.No.	Questions	Marks	KL	CO
11. a)	Explain the concept of Amplitude modulation and its performance parameters with neat diagrams.	13	K2	CO1
	(OR)			
b)	Explain in detail about the modulation parameters of angle modulation techniques with neat sketches of waveforms.	13	K2	CO1
12. a)	Sketch and explain the operation of Binary Phase shift keying modulation with neat waveforms.	13	K2	CO2
	(OR)			
b)	With the neat block diagram, explain the operation of FSK Transmitter and Receiver.	13	K2	CO2
13. a)	Outline the history of data communication techniques.	13	K2	CO3
	(OR)			
b)	Explain in detail about the serial and parallel communication hardware interfaces.	13	K2	CO3
14. a)	Show a detailed comparison of various Pulse communication techniques.	13	K1	CO4
	(OR)			
b)	With neat block diagram and waveforms explain the operation of pulse code modulation technique.	13	K2	CO4
15. a)	Illustrate the uses of technological information, merits and demerits of AMPS, GSM, and CDMA cellular communication standards.	13	K2	CO5
	(OR)			
b)	Explain in detail about the Cellular system design Concepts and Frequency Reuse technique.	13	K2	CO5

PART – C

(1 x 15 = 15 Marks)

Q.No.	Questions	Marks	KL	CO
16. a)	Explain in detail about bit rate, baud rate, Bandwidth and Bandwidth efficiency of FSK modulation technique.	15	K2	CO2
	(OR)			
b)	Select an appropriate choice of data communication code word and interpret the error correction and error detection techniques with respect to the codeword selected.	15	K2	CO3