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SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Classify the various types of signals with neat sketch.	K4	CO1
	(OR)			
	11.b.	Examine the interconnection of LTT systems in detail.		
2	12.a.	Compare the linear and circular convolutions and list down the differences.	K4	CO2
	(OR)			
	12.b.	Analyze the operation of cross correlation with and example and explain.		
3	13.a.	Explain the working of simple IIR digital filters with diagrams.	K5	CO3
	(OR)			
	13.b.	Compare IIR and FIR filters.		
4	14.a.	Explain in detail about direct form I realization.	K5	CO4
	(OR)			
	14.b.	Evaluate the concept of polyphasic realization with an example.		
5	15.a.	Elaborate in detail about the speech processing.	K6	CO5
	(OR)			
	15.b.	Discuss in depth about the digital processing of audio signals.		

SECTION - C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

(3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Classify the discrete time systems and explain it.	K4	CO1
2	17	Distinguish between DFT and FFT algorithms.	K4	CO2
3	18	Explain the design of FIR filters using windowing.	K5	CO3
4	19	Prove the importance of lattice ladder structure in realization of IIR digital filters.	K5	CO4
5	20	Discuss in detail about the Homomorphic Vocoder.	K6	CO5

Z-Z-Z

END