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**SNS College of Technology, Coimbatore-35.****(An Autonomous Institution)****B.E/B.Tech- Internal Assessment -II****Academic Year 2023-2024 (Odd Semester)****Fifth Semester****Electronics & Communication Engineering****19ECB301 Analog and Digital Communication****B****Time: 1^{1/2} Hours****Maximum Marks: 50****Answer All Questions****PART - A (5x 2 = 10 Marks)**

		CO	Blooms
1.	Select the use of RF amplifier in FM receiver.	CO2	App
2.	Define Automatic Gain Control.	CO2	Rem
3.	Summarize aliasing .	CO3	Und
4.	Differentiate sampling and quantization.	CO3	Ana
5.	Find the Manchester code for 10110001 ?	CO3	Rem

PART – B (2*13=26 Marks)(1*14=14 Marks)

			CO	Blooms
6.	(a)	Inspect and discuss the working of wideband FM Armstrong multiplier	13 CO2	App
		(or)		
	(b)	Explain the generation of Vestigial Side Band Signal using product modulator method with necessary block diagram and its applications.	13 CO2	Und
7.	(a)	A binary data 1 1 0 1 0 1 0 0 1 0 is transmitted; Calculate a) Unipolar NRZ code b) polar NRZ code c) Unipolar RZ code d) Bipolar RZ code e) Manchester Code	13 CO3	App
		(or)		

	(b)	Explain the operation of low pass Sampling theorem with its individual blocks.	13	CO3	Und
8.	(a)	Derive the expression of SNR input , post detection , pre detection of FM receiver	14	CO2	App
		(or)			
	(b)	Examine the drawbacks of Inter Symbol Interference and explain the use of Eye pattern with its working.	14	CO3	Ana

Abbreviations:

CO – Course Outcomes; **Rem-** Remembering; **Und** – Understanding; **App** – Applying; **Ana** – Analyzing; **Eva** – Evaluating; **Cre-** Creating