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School of Engineering
B.TECH Electronics and Communication Engineering in Artificial Intelligence and Machine Mid Term Examination - May 2024

Duration: 90 Minutes Max Marks: 50

Sem IV - G2UA401B - Integrated Circuits

General Instructions Answer to the specific question asked Draw neat, labelled diagrams wherever necessary Approved data hand books are allowed subject to verification by the Invigilator

1)	Relate the significance of 3dB.	K2 (2)	
2)	Define and explain in brief the function of comparator.	K1 (3)	
3)	Explain the working of Precision Rectifier using Op-Amp		
4)	Illustrate the various performance parameters of multiplier IC.		
5)	What are the important building blocks of PLL? Explain its working.		
6)	Construct the circuit diagram of inverting Adder using op-amp with circuit analysis.	K3 (9)	
7)	Compare the ideal and practical characteristics of IC741	K4 (8)	
8)	Examine the working of differentiator.	K4 (12)	
	OR		
	Compare the performance of inverting and non-inverting operational amplifier configurations.	K4 (12)	