## **ANURAG Engineering College**

(An Autonomous Institution)

## II B.Tech II Semester Supplementary Examinations, December – 2024 ELECTRONIC CIRCUIT ANALYSIS

(ELECTRONICS AND COMMUNCATION ENGINEERING)

Time: 3 Hours			Max.Marks:60		
Section – A (Short Answer type questions)			(10 Marks)		
Answe	er All Questions	Course	B.T	Marks	
		Outcome	Level		
1.	What is meant by cross over distortion?	CO1	L1	1M	
2.	What is power amplifier?	CO1	L2	1M	
3.	Define unloaded and loaded Q of tuned circuit.	CO2	L1	1M	
4.	What is the effect of cascading single tuned amplifiers on bandwidth?	CO2	L2	1M	
5.	List the applications of bistable multivibrator.	CO3	L1	1M	
6.	Define Astable Multivibrators.	CO3	L2	1M	
7.	Define slope error and displacement error.	CO4	L1	1M	
8.	Why is time base voltage needed?	CO4	L1	1M	
9.	How does pulse synchronization enhance relaxation device performance?	CO5	L2	1M	
10.	How is a sweep circuit used for signal frequency analysis?  Section B (Essay Questions)	CO5	L1	1M	
Answer all questions, each question carries equal marks.		(5	X 10M	= 50M)	
	Explain the operation of class C amplifier with neat diagram.  OR	CO1	L3	10M	
B)		CO1	L3	10M	
12. A)	Compare single tuned and double tuned amplifier OR	CO2	L3	10M	
B)	What is tuned amplifier? Draw and explain double tuned amplifier.	CO2	L3	10M	
13. A)	Explain about Monostable Multivibrator.  OR	CO3	L2	10M	
B)	Write in detail about Schmitt Trigger circuit?	CO3	L3	10M	
14. A)	Explain the concept of Bootstrap Time base generator.  OR	CO4	L2	10M	
B)	Explain the different methods of Linearity improvement in time base generators.	CO4	L3	10M	
15. A)	How do sampling gates operate, and what are the fundamental principles underlying their functionality in digital signal processing and circuit design?  OR	CO5	L3	10M	
B)	What are the advantages and limitations of frequency division in sweep circuits, particularly in comparison to other methods of frequency generation or modulation?	CO5	L3	10M	

