



An AUTONOMOUS Institution

ACE-R20

Question Paper Code:

EE303PC

Semester End Examination II B. Tech- I Semester- MARCH-2022 ANALOG ELECTRONICS

(Electrical & Electronics Engineering)

Time: 3 Hours

Max. Marks: 70

H. T. No				
			-	 120

Answer any 5 Questions out of 8 Questions from the following

Q.No	Question				
1. a)	With the help of neat diagrams, explain the operation of a full wave rectifier and also derive the expressions for ripple factor and efficiency.				
b)	With the help of neat diagrams explain the operation of a two level diode clipper.				
2. a)	Explain the operation of a P-N diode and also draw the V-I characteristics of it.				
b)	amplifier and derive expression for A _i , A _v , R _i and R _o				
3. a)	Distinguish between enhance mode and depletion mode of MOSFET.	7			
b)	f CC amplifier				
4. a)	What are the advantages of Class B amplifier over Class A amplifier?	7			
b)	Write short notes on RC Coupled multi-stage amplifiers	7			
5. a)	Draw the ac equivalent circuit for the dual input and balanced output differential amplifier.				
b)	sketch.	7			
6. a)	How does negative feedback affect the performance of an inverting amplifier.	7			
b)	Discuss about Voltage –Shunt Feedback Amplifier in detail.	7			
7. a)	C.1 Little agaillaton				
b)	Draw the block diagram of operational amplifier and explain it in detail.	7			
8. a)	Draw and explain the operation of integrator using op-amp in detail	7			
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