



# RAVINDRA COLLEGE OF ENGINEERING FOR WOMEN

II B tech -I Semester (R19)

Branch: ECE

Academic year 2020-21

Subject : Electronic Devices and Circuits(19A04302T)

## UNIT: 3

S No	Questions (Short)	CO	Cognitive Level
1	Write harmonic component equations for HWR & FWR output currents.	C202.3	Remember
2	Define Surge Currents with neat figure.	C202.3	Remember
3	What is the use of Bleeder Resistance in the circuit?	C202.3	Remember
4	Define Critical Inductance.	C202.3	Remember
5	Define PIV of a Rectifier.	C202.3	Remember
6	Define ripple factor and form factor.	C202.3	Remember
7	Compare the rectifier and regulator	C202.3	Remember
8	Draw the circuit diagram of positive clipper.	C202.3	Remember
9	State clamping circuit theorem.	C202.3	Remember

S No	Questions (Essay)	CO	Cognitive Level
1	Draw half wave rectifier circuit using diode and explain its operation.	C202.3	Apply
2	Draw full wave rectifier circuit using diodes and explain its operation.	C202.3	Apply
3	Derive an expression for ripple factor of FWR Inductor filter.	C202.3	Apply
4	Derive an expression for ripple factor of HWR & FWR Capacitor filter.	C202.3	Apply
5	Derive an expression for ripple factor of L-section or LC filter.	C202.3	Apply
6	Derive an expression for ripple factor of $\pi$ -section or CLC filter.	C202.3	Apply
7	State and explain Millers theorem.	C202.3	Remember

<b>8</b>	Write about clipping and clamping of wave forms. Classify different types of clipper circuits give their circuits and explain their operation with help of transfer characteristics.	C202.3	Remember
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