



St. Michael Polytechnic College

St. Santhiyagappar Nagar
Kalayarkoil-630 551.



DEPT: ECE

YEAR/SEMESTER: II / III

SUB.NAME: Electronic Devices and Circuits

Each question carries 1(one) mark in PART-A and 12(twelve) marks in PART-B

PART – A

1. Define Semiconductor.
2. What is intrinsic semiconductor?
3. What is Extrinsic semiconductor?
4. Define drift current?
5. Define Diffusion current?
6. Define Peak inverse voltage?
7. Define Reverse recovery time?
8. Draw the symbol of Zener diode?
9. What is rectifier?
10. Define Ripple factor?
11. Mention the various types of rectifiers?
12. Mention the various types of filters?
13. Define Filter?
14. Compare Rectifier and Zener Diode?
15. Define Rectifier Efficiency?

PART – B

16. Explain the working principle of PN junction diode?
17. Explain the working principle of Zener diode?
18. Explain with neat diagram Full wave rectifier?
19. Explain with neat diagram Bridge wave rectifier?
20. Explain with neat diagram C and Pi filters?
21. Explain with neat diagram LC filters?