

Roll No

EC-304

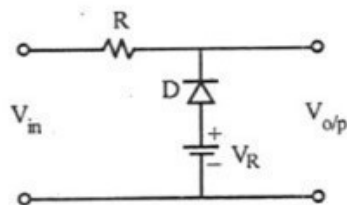
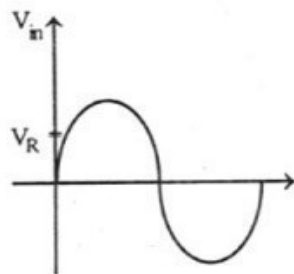
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B.E. III Semester

Examination, December 2016

Electronics Devices**Time : Three Hours****Maximum Marks : 70****Note:** Attempt any five questions.

1. a) Draw and explain VI characteristics of PN junction diode. 7
b) Define transition and diffusion capacitances found in diode. 7
2. a) Describe Intrinsic, Extrinsic, p type and n type semiconductors. 7
b) Draw and explain use of diodes as rectifier circuit. 7
3. a) What is Clipper Circuit? Draw output of following circuit. 7



- b) What is the use of Clamper Circuit? Draw a clamper circuit. 7

4. a) Explain construction, characteristics and applications of Zener diode. 7
b) Write a short note on Varactor diode. Also write its applications. 7
5. a) How is Schottky diode different from normal PN diode? Discuss its applications. 7
b) Describe the application of a transistor as an amplifier and as a switch. 7
6. a) Draw output characteristics of CE configuration and explain regions of operation. 7
b) What is Uni-junction transistor? Write its characteristics. 7
7. a) Draw and differentiate Depletion and Enhancement MOSFET. 7
b) Explain the difference between BJT and FET. 7
8. Write short notes on any two. 14
a) LED
b) PIN diode
c) Photo transistors
