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Question Paper Code : X 20437

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020

Second Semester

Electronics and Communication Engineering

EC 6201 – ELECTRONIC DEVICES

(Regulations 2013)

(Common to PTEC 6201 for B.E. (Part-Time) Electronic Devices – First Semester
Regulations – 2014)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. What is recovery time ? Give its types.
2. State Hall Effect.
3. Define Early Effect.
4. What do you mean by multi emitter transistor ?
5. What is channel length modulation ?
6. Differentiate JFET and BJT.
7. Why zener diode is often preferred than PN diode ?
8. What is a Tunnel Diode ?
9. Why SCR cannot be used as a bidirectional switch ?
10. Mention the applications of UJT.

PART – B

(5×16=80 Marks)

11. a) Derive the quantitative theory of PN diode currents. **(16)**
(OR)
- b) i) Draw a diagram to illustrate drift current and diffusion current in a semiconductor material. Explain in detail. **(10)**
ii) Elucidate the switching characteristics of diode. **(6)**

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ELECTRONICS LAB MANUAL Volume I, FIFTH EDITION NAVAS, K. A., 2015-09-11 This lab manual is intended to support the students of undergraduate engineering in the related fields of electronics engineering for practicing laboratory experiments It will also be useful to the undergraduate students of electrical science branches of engineering and applied science This book begins with an introduction to the electronic components and equipment and the experiments for electronics workshop Further it covers experiments for basic electronics lab electronic circuits lab and digital electronics lab A separate chapter is devoted to the simulation of electronics experiments using PSpice Each experiment has aim components and equipment required theory circuit diagram tables graphs alternate circuits answered questions and troubleshooting techniques Answered viva voce questions and solved examination questions given at the end of each experiment will be very helpful for the students The purpose of the experiments described here is to acquaint the students with Analog and digital devices Design of circuits Instruments and procedures for electronic test and measurement

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