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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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Annelies Wilder-Smith



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