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<b>Question Paper Code : X 20437</b>
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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)**

# Electronics Devices Lab Manual Anna University Questions

**S Ben Porath**



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