



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 2027

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B. Tech.**(SEM. VI) EXAMINATION, 2006-07****EE - 604 : POWER ELECTRONICS****Time : 3 Hours]****[Total Marks : 100****Note :** Answer all questions.

- 1** Answer any **four** parts out of the following :
- (a) What are the characteristics of an ideal power-switching device? Compare the characteristics of IGBT and MOSFET. **5**
 - (b) Name the different power electronic converters available and list their advantages over conventional modes of conversion and control. **5**
 - (c) Draw the static V-I characteristics of SCR and explain its modes of operation. **5**
 - (d) What are the different methods of firing employed for SCR triggering? Explain UJT firing circuit with relevant waveforms. **5**
 - (e) Define di/dt and dv/dt ratings of SCR. How is SCR protected against these? **5**
 - (f) In a power circuit 4 SCRs are to be connected in series. Permissible difference in blocking voltage is 20 V for a maximum difference in their blocking currents of 10 mA. Difference in recovery charge is 10 micro coulomb. Design suitable equalizer circuit. **5**

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