

IV B.Tech I Semester Supplementary Examinations, April/May 2005
POWER AND INDUSTRIAL ELECTRONICS
(Bio-Medical Engineering)

Time: 3 hours

Max Marks: 70

Answer any FIVE Questions
All Questions carry equal marks

1. With a neat circuit diagram explain the operation of class-A large signal amplifier and derive an expression for the output power.
2. With a neat circuit diagram explain the operation of a double tuned amplifier.
3. Explain about the two Transistor analogy of an SCR.
4. Explain with the help of a circuit diagram the working principle of the Mc Murray Bedford Inverter.
5. Explain about the operating principles of various types of resistance welding.
6. Explain with the help of block diagram the armature voltage control method of speed control of DC shunt motor using a thyristor bridge.
7. Explain in brief the working of Tuned plate oscillator circuit used in Induction heaters.
8. Explain with the help of a block diagram the working of a piezoelectric ultrasonic generator.
