

Time - 2 hours

Note  $\Rightarrow$  Attempt Any two question in every Parts -

- 1(a) What is difference Among SCR triac and Diac ?
  - (b) What is triggering process? Explain One method?
  - (c) to Draw the Circuit - (i) Automatic Bidirectional chopper  
(ii) temperature Control Circuit.
- ~~2(a)~~
- 2(a) What do you Understand the Parameter of UJT, Explain
  - (b) Explain UJT Relaxation Oscillator?
  - (c) Draw the circuit Diagram and waves of Full wave Controlled Rectifier with Load
- 3(a) Explain the Modified Series Inverter?
  - (b) What the Principle of Cyclo Converter?
  - (c) What the difference between Chopper and Dual Converter?
- 4(a) Give the Concept of Induction Heating and Dielectric Heating? with Application -
  - (b) What do you Understand the transducer? Explain the principle of RTD?
- (c) Explain force and Pressure Measurement by Capacitive transducer?
- 5(a) Give the Concept of Piezoelectric Crystal transducer?
  - (b) What the difference between Open loop and close loop?
  - (c) Explain the Instrumentation Amplifier?