

# DEPARTMENT OF ELECTRICAL ENGINEERING

INTERNAL ASSESMENT ( W-22) F.M.=20 TIME =1Hr

SUB: POWER ELECTRONICS & PLC SEM: 5<sup>th</sup>

Answer three questions including No. 1

No 1. [2X5=10]

- (a) Define holding current .
- (b) What is freewheeling diode ?
- (c) Define commutation.
- (d) Draw the figure of SCR .
- (e) Define delay time .

No 2. Explain turn-on methods of SCR. [5]

No 3. Explain with neat sketch single-phase half wave controlled rectifier with R-load. [5]

No 4. Draw and explain the two transistor model of SCR. [5]