

**MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY,
JAMSHORO****MID SEMESTER EXAMINATION OF 8th SEMESTER 13 BATCH (Section-I)
OF B.E. (ELECTRICAL ENGINEERING)****POWER ELECTRONICS**

Course code: EL-421

Date: 22-08-16

Time Allowed: 1 hour (3 C.H)

Max: Marks-20.

NOTE : ATTEMPT ANY TWO QUESTIONS.**Q. No:1**

- (a) Sketch static V-I characteristics of a GTO. Enlist the operating modes and explain turn off capability of GTO.
- (b) A thyristor has a linearized gate-cathode characteristic of slope 25 V/A. A gate current of 200mA turns the thyristor on in 16 micro-seconds. The gate source voltage is 10V. The manufacturer's average maximum power for the gate is 400mW.
 - (i) Sketch the gate- cathode characteristics.
 - (ii) Calculate the value of the gate series resistance.
 - (iii) Calculate the gate power dissipation during turn-on.

Q. No:2

- (a) With the help of circuit diagram, explain, how a charge capacitor switched by an auxiliary SCR turn off the load carrying SCR.
- (b) Sketch typical off-state characteristics of two series connected thyristors and show how they share the voltage.

Q. No:3

- (a) Draw equivalent and firing circuit of UJT.
- (b) Replace the SCR as shown in Figure 1 with RCT and enlist the advantages of the circuit. Draw and discuss the operation of Resistive AC firing circuit used to trigger of the following circuit after replacing the SCR.
Draw the waveforms across load and RCT at firing angle of 120° .



Figure 1

-----THE END-----

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