

EXTRA

V.P. & R.P.T.P SCIENCE COLLEGE  
INTERANAL EXAM  
T.Y.B.Sc (SEM.-V) ELECTRONICS  
SUB. CODE:-US05CELE05

DATE:-05/10/2016

TIME:-11:00 am To 12:30pm

MARKS-25

- Q-1 Choose correct answer [3]
1. Recommended method to TURN-ON SCR is \_\_\_\_\_.  
(A) triggering by A.C signal (C) both (A) and (B)  
(B) triggering by D.C signal (D) none of above
  2.  $V_{BO}$  in SCR refer as \_\_\_\_\_.  
(A) over voltage (C) break over voltage  
(B) break down voltage (D) none
  3. Thyristor device mainly used for \_\_\_\_\_.  
(A) rectification (C) power controlling  
(B) amplification (D) none
- Q-2 Short answer type question.(attempt any two) [4]
1. Define holding current  $I_h$ .
  2. State function of gate in SCR.
  3. Differentiate between semiconductor and thyristor device.
- Q-3 Discuss the principle of operation and characteristics of SCR. [6]
- OR
- Q-3 Discuss the different methods of turning on a SCR with TURN-ON characteristics. [6]
- Q-4 Explain series operation of SCR with necessary diagram. [6]
- OR
- Q-4 Discuss the parallel operation of SCR with necessary diagram. [6]
- Q-5 Discuss triggering modes of TRIAC. [6]
- OR
- Q-5 Discuss characteristics and operation of UJT with necessary diagram. [6]



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