

V.P. & R.P.T.P SCIENCE COLLEGE

INTERANAL EXAM-2017

T.Y.B.Sc (SEM-V<sup>th</sup>) ELECTRONICS

SUB. CODE:-US05CELE05

DATE:-07/10/2017

Time:- 11:00 am to 12:30 pm

MARKS-25

Q-1 Choose correct answer

[3]

- 1. Thyristor device mainly used for \_\_\_\_\_.  
 (A) amplification (C) rectification  
 (B) power controlling (D) none of above
- 2.  $V_{BO}$  in SCR refer as \_\_\_\_\_.  
 (A) overvoltage (C) break over voltage  
 (B) break down voltage (D) none of above
- 3. Recommended method to turn on SCR is \_\_\_\_\_.  
 (A) triggering by D.C signal (C) both A and B  
 (B) triggering by A.C signal (D) none of above



Q-2 Short answer type question.(attempt any two)

[4]

- 1. State function of gate in SCR.
- 2. Differentiate between semiconductor and thyristor.
- 3. Define holding current  $I_h$ .

Q-3 Explain the different methods of turning on a SCR with TURN-ON characteristics.

[6]

OR

Q-3 Discuss the principle of operation and characteristics of SCR.

[6]

Q-4 Discuss series operation of SCR with necessary diagram.

[6]

OR

Q-4 Discuss parallel operation of SCR with necessary diagram.

[6]

Q-5 Discuss characteristics and operation of an UJT with necessary diagram.

[6]

OR

Q-5 Discuss triggering modes of TRIAC.

[6]