

Exam

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

INTERANAL EXAM

T.Y.B.Sc.(SEM-V) ELECTRONICS

SUB: - Industrial electronics-I

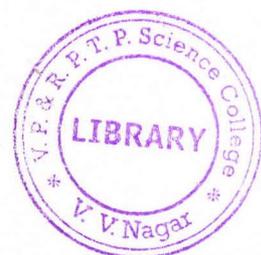
SUB CODE: US05CELE05

DATE:-09/10/2019

TIME: 11:00 am to 12:15 pm

MARKS-25

- Q-1 Choose correct answer [05]
1. Thyristor mainly used for _____.
(A) Power controlling (C) Relaxation oscillation
(B) Rectification (D) None of above
 2. Recommended method to TURN-ON SCR is _____.
(A) Triggering by A.C signal (C) Triggering by D.C signal
(B) Triggering by pulse signal (D) None of above
 3. UJT mainly used for _____.
(A) relaxation oscillator (C) amplification
(B) rectification (D) None of above
 4. TRIAC ____ type of device.
(A) multi-directional (C) bi-directional
(B) uni-directional (D) None of above
 5. _____ Connection of SCR used for controlling very high current.
(A) series (C) bi-directional
(B) parallel (D) None of above



Q-2 Discuss principle of operation and characteristics of SCR. [05]

OR

Q-2 Discuss different method of turning on a SCR with TURN-ON characteristics. [05]

Q-3 Discuss the series operation of SCR with necessary diagram. [05]

OR

Q-3 Discuss the parallel operation of SCR with necessary diagram and compensation circuits. [05]

Q-4 Discuss characteristics and operation of UJT with necessary diagram. [05]

OR

Q-4 Write a note on different triggering mode of TRIAC. [05]

Q-5 Draw the schematic diagram of D.C motor and discuss its working briefly. [05]

OR

Q-5 Discuss series inverter with necessary diagram. [05]