

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

INTERANAL EXAM-2018

S.Y.B.Sc. (SEM-IV) INSTRUMENTATION (VOC.)

SUB. CODE:-US04CINV01 (ELECTRICAL INSTRUMENT AND POWER ELECTRONICS-II)

DATE:-13/03/2018

TIME:-3:00 PM to 4:30 PM

MARKS-25

Q-1 Choose correct answer [3]

1. The relaxation period of the UJT can be changed by varying rate of _____.
(A) inductor (C) resistor
(B) capacitor (D) none of above
2. _____ is bi-directional device with three terminals.
(A) UJT (C) SCR
(B) TRIAC (D) none of above
3. SCR connected in series to improve the _____ rating.
(A) current (C) resistance
(B) voltage (D) none of above



Q-2 Short answer type question.(attempt any two) [4]

1. Define string efficiency.
2. Differentiate DIAC and TRIAC.
3. Can we use SCR use in inverter? Briefly explain.

Q-3 Explain SCR principle of operation and construction with characteristics. [6]
OR

Q-3 Discuss parallel connected operation of an SCR. [6]

Q-4 Explain UJT constructional mechanism and characteristics. [6]
OR

Q-4 Explain the constructional mechanism and triggering mode of TRIAC with necessary figure. [6]

Q-5 Explain : Zero voltage switch [6]
OR

Q-5 Explain : logical and digital circuit with help of SCS. [6]
