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

INTERANAL EXAM

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

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

DATE:-07/03/2017

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

MARKS-25

Q-1 Choose correct answer

[3]

1. The SCR is a _____ layer device with three terminal.
(A) four (C) two
(B) three (D) none of above
2. _____ is used as a relaxation oscillation.
(A) UJT (C) SCS
(B) CSCR (D) all of above
3. Thyristor device mainly used for _____.
(A) rectification (C) power controlling
(B) amplification (D) none of above



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

[4]

1. Which factor affecting TURN-ON characteristics of time?
2. Differentiate SCR and TRIAC.
3. Enlist thyristor application for AC and DC circuit.

Q-3 Explain TURN-OFF^{gF SCR} mechanism with necessary figure.

[6]

OR

Q-3 Discuss series connected operation of an SCR.

[6]

Q-4 Discuss the constructional mechanism and triggering mode of TRIAC with necessary figure.

[6]

OR

Q-4 Explain low power devices of thyristor in detail.

[6]

Q-5 Explain static breaker AC and DC circuit.

[6]

OR

Q-5 Write a note on logical and digital circuits using SCS or GTO devices.

[6]
