

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

Internal test (S.Y.B.Sc. Sem-III)

ELECTRONICS CIRCUITS

US03CELE01

03/10/2013

Thursday

1:30 to 2:30 PM

Total Marks: 30

Q-1 Choose Correct Answer

[6]

- (1) The Reactance of Inductor $X_L =$ _____.
(A) $2\pi fL$ (B) $\frac{1}{2\pi fC}$ (C) R (D) none of these
- (2) The Reactance of capacitor $X_C =$ _____.
(A) $2\pi fL$ (B) $\frac{1}{2\pi fC}$ (C) R (D) none of these
- (3) Pure Semi Conductor Material is referred as _____ material.
(A) Intrinsic (B) Extrinsic (C) Metal (D) None of these
- (4) Doped Semiconductor material is termed as _____ material.
(A) Intrinsic (B) Extrinsic (C) Metal (D) None of these
- (5) Diode clamper circuit is used in _____.
(A) Television (B) Radio (C) Power supply (D) None of these.
- (6) Square law diode modulator uses _____ portion of diode characteristics.
(A) Linear (B) Non-Linear (C) Triangular (D) None of these.

Q-2 Answer the Questions. (Any Three, each two marks)

[6]

- (1) Explain Wire wound resistor.
- (2) Explain Mica capacitor.
- (3) Write a note on P-type Semiconductor.
- (4) Write a note on N-type semiconductor.
- (5) Draw the circuit of square law diode modulator and explain in brief.
- (6) Draw a circuit of Amplitude Demodulator circuit and explain in brief.



Q-3 List different types of fixed resistors and explain any three in detail.

[6]

OR

Q-3 List different types of fixed capacitors and explain any two in detail.

[6]

Q-4 Give an Account of Step voltage response of RL - Circuit.

[6]

OR

Q-4 Give an Account of Reverse biased PN Junction diode.

[6]

Q-5 Explain Amplitude Modulation drawing Wave form and derive necessary derivation.

[6]

OR

Q-5 List different applications of diode and explain any one in detail.

[6]

*****All the best*****