

**ANNAI VIOLET ARTS AND SCIENCE COLLEGE
DEPARTMENT OF PHYSICS**

CONTINUOUS INTERNAL ASSESSMENT-I (ODD SEM)

Subject: Basic electronics

Class: III B.Sc., Physics

Max. Marks: 50

Date: 05.09.2022-FN

Sub.Code:SR25D

**PART A (5 × 2 = 10 Marks)
Answer any FIVE questions**

1. Define p- type semiconductor.
2. Distinguish between intrinsic and extrinsic semiconductors.
3. State application of zener diode.
4. Mention AC power gain common Emitter transistor amplifier.
5. Write the Barkhausen condition for oscillation.
6. List out effect of negative feed back
7. What is the difference between an amplifier and oscillator?

**PART B – (2× 5 = 10 Marks)
Answer any TWO questions**

8. Describe the characteristics of a PN junction.
9. Give the detailed explanation about class –A amplifier
10. Write the working of Wine's bridge oscillator

**PART C – (3 × 10 = 30 Marks)
Answer ALL questions**

10. Explain with neat circuit diagram, Zener diode V-I characterization.
11. Describe the frequency response curve for the RC coupled amplifier.
13. What is RC coupled amplifier? Explain with frequency response curve.

**Prepared by
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Asst. Prof- Physics**