

**B.Sc. Part III Examination -2021**

**Kandi Raj College**

**PHYSICS**

**[General]**

**[Practical]**

**Paper:IV**

Time: 3 Hours

Full Marks-40

**Answer any four questions**

1. Describe a suitable experimental arrangement to draw the current voltage characteristics of a semi-conductor diode. 10
2. Describe a suitable experimental arrangement to draw the current voltage characteristics of a Zener diode. 10
3. How can the common emitter characteristics of a transistor be drawn? How can the various transistor parameters be found from it? 10
4. Describe a suitable experimental arrangement to get a regulated power supply in a breadboard. 10
5. How can OR, AND, NOT and NAND gates be constructed using diodes and transistors? Describe procedures for verification of their truth tables. 10
6. What is constant? Explain various types of constant in FORTRAN. 2+8
7. Write a program to find a transpose of a matrix.  
Write short notes on:  
(i) Call statement  
(ii) Save statement. 4+3+3