

SREE CHAITANYA MAHAVIDYALAYA

B.Sc (General) INTERNAL EXAMINATION-2022

SEMESTER-V

Subject: Physics

Full marks-8

Answer any four questions from the following:

4×2=8

1. Write down Shockley equation. What is reverse saturation current?
2. Draw a neat circuit diagram for a Full wave rectifier.
3. Explain the operation of a Zener diode as a voltage regulator with help of circuit diagram.
4. A transistor in CE mode has $\alpha=0.99$. If $I_C=2\text{ mA}$, find out the value of I_E and I_B .
5. State De Morgan's theorem
6. Convert the decimal number 13.625 to its binary equivalent.