

SYAMAPRASAD COLLEGE

INTERNAL EXAMINATION

SEMESTER V

PAPER: Photonic Devices and Power Electronics

PAPER CODE: ELT-G-DSE-5-A-2-TH

FULL MARKS: 10

TIME: 30 MINUTES

Candidates are required to give their answers in their own words as far as practicable.

Answer any five (5) questions. Each carries two (2) marks.

1. Explain stimulated emission.
2. Why do LEDs emit different colours?
3. What is the difference between photodiode and solar cell?
4. State the characteristics of a LASER.
5. What are the advantages of LCD over LED displays?
6. What is silicon controlled rectifier?
7. Mention some of the applications of Power MOSFET.
8. Draw the static I-V characteristics of Insulated Gate Bipolar Transistors (IGBT).