

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT  
TEST -2 EXAMINATION- 2024

B.Tech-VIII Semester (CSE/IT/ECE/CE)

COURSE CODE(CREDITS): 18B1WPH831

MAX. MARKS: 25

COURSE NAME: OPTOELECTRONIC DEVICES

COURSE INSTRUCTORS: SKK

MAX. TIME: 1 Hour 30 Minutes

*Note: (a) All questions are compulsory and carry equal marks*

*(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems.*

1. Using spectrum intensity spectrum, explain how eye works as an optoelectronic detector.
2. With the help of block diagrams, what class of sensor are photodiodes with respect to classification of optoelectronic devices
3. Why is FET treated as two terminal device despite having three terminals. How are FET used as a photo sensing device.
4. Draw the circuit of photomultiplier and explain its working.
5. Write short notes on (a) LED (b) PIN diode