

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- Sept. 2017

PhD

COURSE CODE: 15P1WPH213

MAX. MARKS:15

COURSE NAME: Semiconducting Luminescent Materials

COURSE CREDITS: 03

MAX. TIME: One Hr

*Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.*

- Q.1. Discuss the direct and indirect band gap semiconductors with examples. 4
- Q.2. How excitation takes place in large band gap semiconductors? 3
- Q.3. What are the main properties of narrow gap semiconductors and their applications? 3
- Q.4. What are photoconductive and photovoltaic array applications of narrow band gap semiconductors? 5