**BEET5-I**

**Seventh Semester B. Tech Electronics &Telecommunication Engineering**

**Examination Aug/Sep-2015**

**(Elective-I) Optical Electronics & Photonics-I**

**Time:-3Hours Max. Marks: - 75**

**SECTION-A**

**Answer any five questions. (5\*5)**

1. Clarify the Rapid Thermal Activation of Impurities.
2. Define the term Coulomb Scattering.
3. What do you mean by Rapid Thermal Processing of Dielectrics?
4. Define the Source Systems and Spatial Coherence.
5. Enlist the Characteristics of Oxide.
6. Write down the structure of SiO2.
7. Comment on the Vertical Projected Range.

**SECTION-B**

**Answer any two questions. (10\*2)**

1. Explain the Corrections made to Simple Theory.
2. Give an account of the Analytic Solutions of Fick’s Law.
3. Describe the Shallow Junction Formation.

**SECTION-C**

**Answer any two questions. (15\*2)**

1. Discuss the Bridgman Growth of GaAs.
2. Write a detail note on Float Zone Growth.
3. Describe the Surface Reflections and Standing Waves.