

Integral University, Lucknow

Makeup Test- 2012-2013(Odd Semesters)

NANOELECTRONICS (EC-707)

Year: 4th Sem: VIIth

Groups: EC1 and EC2

Max. Marks: 15

Time: 1 hour 30 minutes

Note: (1). Attempt any 3(*three*) Questions.

(2). All questions carry equal marks.

Q1. What is SET? And give its fabrication techniques. (5)

Q2. Design circuits using RTD for ORing, ANDing and Inverter operations. (5)

Q3. What are the limits of microminiaturization in silicon. (5)

Q4. What are Carbon Nanotubes. What is the base material required for the construction of CNTs? (5)

Q5. What is RTBT? Explain the RTBT MOBILE and RTBT Threshold Gate? (5)