**BEET5-III**

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

**Examination Aug/Sep-2015**

**Radar System**

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

**SECTION-A**

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

1. Clarify Delta-k Radar.
2. What do you mean by Super solution?
3. What is the Moving-Windows Integrator?
4. Briefly write about the measurements of a Point Target.
5. Define the Certainty of the Uncertainty Principle.
6. What are Linear FM Pulse-Compression Filets?
7. Write a short note on Radar Waveforms.

**SECTION-B**

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

1. Explain the Doppler Frequency Shift.
2. Write a detail note on Pulse-Compression.
3. Describe the simple form of the Radar equation.

**SECTION-C**

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

1. Elaborate Conical Scan and Sequential Lobbing.
2. Discuss the Detection Criteria of signals in noise.
3. Explain the following:
4. Probability of false alarm ii. Probability of detections