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For Questions, Notes, Syllabus & Results

EC 8491 Communication Theory Important 13mark questions

<u>Unit I</u>

- 1. Explain in detail the generation and demodulation of DSB-SC with a simple diagram.
- 2. Derive the expression for amplitude modulated wave and explain any one method to generate and demodulate it.

<u>Unit II</u>

- 1. Explain the characteristics and features of demodulation of FM signal with a neat diagram.
- 2. Explain the direct method of FM generation.

Unit III

- 1. Describe the properties of power spectral density.
- 2. Explain in detail about the transmission of a random process through a linear time invariant filter.

<u>Unit IV</u>

- 1. Explain pre-emphasis and de-emphasis in FM system with a neat diagram.
- 2. Derive the figure of merit for AM system. Assume envelope detection.

<u>Unit V</u>

- 1. Explain the working of PWM with a neat sketch.
- 2. State Shannon's various theorems and explain.