

4/10/13

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**B.E / B.Tech ( Full Time ) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2013**

**Electronics and Communication Engineering**

**Fourth Semester**

**EC9261 COMMUNICATION ENGINEERING**

**(Regulation 2008)**

**Time: 3 Hours**

**Answer ALL Questions**

**Max. Marks 100**

**PART-A (10 x 2 = 20 Marks)**

1. Define Sampling theorem.
2. Write the expression for FM signal.
3. Find the transmitted power in AM signal with modulation index 0.5 and carrier power of 11.25 watts.
4. Briefly explain ASK system.
5. Mention the different types of error correction codes.
6. Draw a NRZ waveforms for the data 1100101. Write any two properties of NRZ coding.
7. Write about any two properties of PRBS.
8. Distinguish between FDMA and TDMA
9. What are the features of geo Synchronous Satellite.
10. Define Numerical aperture of a Fiber.

**Part – B ( 5 x 16 = 80 marks)**

11. (i) Define FM and describe any one method of generating FM. (10)  
(ii) Explain SSB transmitter. (6)

