Roll No. | | | | | | | | | | | | |

Total No. of Pages : 01

Total No. of Questions : 08

M.Tech. ECE (Wireless Communication) (2018 Batch) (Sem.–2)

SIMULATION OF WIRELESS COMMUNICATION SYSTEMS

Subject Code : MTWC-105-18

M.Code : 76069

Time : 3 Hrs. Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1.Attempt any FIVE questions out of EIGHT questions.

2.Each question carries TWELVE marks.

1. Explain briefly systems model steps and its types involved in simulation study.
2. Explain role of simulation in communication systems and random process.
3. How power spectral density function is different from energy spectral density function?Explain the role of PSD in wireless communication systems.
4. Explain briefly FDMA, TDMA, and CDMA.
5. Differentiate ASK, FSK, BPSK, and QPSK.
6. Explain briefly Rayleigh fading and Rician fading.
7. What is stochastic process and explain its properties briefly?
8. Write short notes on :
   a) PLL
   b) Doppler effect
   c) Optical modulation
   d) Application of wireless communication systems

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.