

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2018
(Second Semester)

Branch - APPLIED ELECTRONICS

WIRELESS COMMUNICATION SYSTEMS

Time : Three Hours

Maximum ; 75 Marks

SECTION -A (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

- 1 a Give an account on examples of wireless communication systems.
OR
b Describe the evolution of mobile radio communications.
- 2 a Elucidate the frequency reuse concept.
OR
b Narrate the CDMA technology used in mobile.
- 3 a Enumerate about the radio resource management.
OR
b Explain how transmission is happening in GSM architecture.
- 4 a Briefly explain UMTS network protocol architecture.
OR
b Describe the handover network protocol architecture.
- 5 a Enumerate channel acquisition in WiMAX.
OR
b Narrate security in WiMAX networks.

SECTION -B (45 Marks)

Answer any THREE questions

ALL questions carry EQUAL Marks (3 x 15 = 45)

- 6 Elucidate the 2nd generation cellular networks.
- 7 Describe how will you improving coverage and capacity in cellular systems.
- 8 Draw the blocks of GSM architecture and explain.
- 9 Enumerate about the interfaces and channels in UMTS.
- 10 Give an account on MAC layer.