

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2018
(Sixth Semester)

Branch- ELECTRONICS

CORE ELECTIVE - II: MOBILE TECHNOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

- 1 Define Cell.
- 2 What is Cluster?
- 3 Mention the different types of multiple access techniques.
- 4 What is Multiplexing?
- 5 State in your own words about GSM.
- 6 Define MTS.
- 7 Expand GPRS.
- 8 Mention the advantages of 3G over 2G.
- 9 Define Roaming.
- 10 What is Hotspot?

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Write a note on Frequency Reuse.
OR
b Explain about Cell Splitting.
- 12 a Discuss about CDMA.
OR
b Explain the operation of TDMA.
- 13 a Explain the routing of a call to a mobile subscriber.
OR
b Revise the concept of Radio Subsystem.
- 14 a State the applications of GPRS.
OR
b Explain the operation of HSCSD.
- 15 a Write a Note on 4G.
OR
b Illustrate the functions of HSPA.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Analyse the various mobile communication antennas.
- 17 Illustrate the operation of Frequency Division Multiple Access.
- 18 Describe the functions of GSM architecture.
- 19 Discuss the GPRS networks architecture in detail.
- 20 Describe the operation of Mobility management for UMTS network.