

Exam Date & Time: 30-Sep-2020 (10:00 AM - 01:45 PM)



## PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image : 30mins + Grace Time : 15mins

BSc DEGREE EXAMINATION MAY 2020  
(Sixth Semester)

Branch - ELECTRONICS

CORE ELECTIVE - II - MOBILE TECHNOLOGY [14ELU27A]

Marks: 75

Duration: 225 mins.

### SECTION A

Answer all the questions.

- 1) Define cell splitting. (2)
- 2) Expand MTSO \_\_\_\_\_. (2)
- 3) Expand CDMA \_\_\_\_\_. (2)
- 4) List the advantage of FDMA. (2)
- 5) what is BSC? (2)
- 6) Define Routing. (2)
- 7) Expand GPRS \_\_\_\_\_. (2)
- 8) What is the principle of HSCSD? (2)
- 9) Define Time Slot. (2)
- 10) Expand HSPA \_\_\_\_\_. (2)

### SECTION B

Answer all the questions.

- 11) Describe about the mechanism used in handoff. (5)
  - a) [OR] What are the shape related to a cell? (5)
  - b)
- 12) State the uses of TDMA? (5)

- a)  
[OR] What is multiplexing? Explain its concept with neat diagram. (5)  
b)
- 13) Write note on network switching subsystem. (5)
- a)  
[OR] Describe about the GSM cell setup procedure. (5)  
b)
- 14) Explain about the GPRS states of mobile management. (5)
- a)  
[OR] Describe about the GPRS routing. (5)  
b)
- 15) What is 3G & 4G? Explain. (5)
- a)  
[OR] Explain about the UMTS Handover. (5)  
b)

### SECTION C

**Answer 3 out of 5 questions.**

- 16) Discuss briefly about propagation models for wireless networks. (10)
- 17) With neat diagram explain the function of frequency division multiple access. (10)
- 18) Elucidate briefly about the GSM protocols with neat diagram. (10)
- 19) Discuss in detail about EPGB with neat diagram. (10)
- 20) Elucidate the function of UMTS architecture with neat diagram. (10)

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