

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION DECEMBER 2023
(Fifth Semester)

Branch - COMMERCE (COMMERCE WITH COMPUTER APPLICATIONS)

DISCIPLINE SPECIFIC ELECTIVE – I

MOBILE COMPUTING AND ITS APPLICATION

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 By what other term can mobile computing environment be referred to generally?
(i) Distributed computing (ii) Grid computing
(iii) Both (i) and (ii) (iv) None of the above
- 2 Which type of multiplexing enables to use of the whole bandwidth simultaneously?
(i) FDMA (ii) CDMA
(iii) TDMA (iv) None of the above
- 3 Which of the following technology uses wireless communication mode to exchange or transfer data between several mobiles with in a short-range?
(i) Bluetooth technology (ii) Ad hoc computing
(iii) Mobile computing (iv) None of the mentioned
- 4 The basic geographic unit of a cellular system is ____
(i) Cell (ii) Footprint
(iii) Cluster (iv) Frequency reuse
- 5 Which of the following service of GSM provides to permit transparent or non-transparent, asynchronous or synchronous transmission of the data?
(i) Supplementary services (ii) Bearer services
(iii) Teleservices (iv) All of the above

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a State the types of Wireless Technology.
OR
b Bring out the functions of a cellular system.
- 7 a Describe the operation of TCP/IP.
OR
b Narrate about the concept of snooping in TCP.
- 8 a Explain the various types of multiplexing.
OR
b Summarize the methods of modulation with illustration.

Cont...

- 9 a Analyze the Cellular concepts in Mobile Computing.
OR
b What is cell splitting? Explain the techniques and effects of cell splitting.
- 10 a State the various types of GSM network with examples.
OR
b Outline GSM location Update.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Trace the evolution of Wirelss Technology.
OR
b Elucidate the architecture of mobile computing.
- 12 a Discuss in detail about IPV4.
OR
b Outline TCP for mobility in detail.
- 13 a Summarize the various components of WAP standard.
OR
b Explain about Wireless Transport Layer Protocol with neat diagram.
- 14 a Highlight the Cellular System.
OR
b Summarize channel assignment strategies.
- 15 a Examine in detail about GSM control channels.
OR
b Discuss about mobility management in GSM.

Z-Z-Z

END