

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION MAY 2024
(Fifth Semester)

Branch - COMMERCE (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 Mobile Computing allows transmission of data from one wireless-enabled device to another -----.
(i) Any device (ii) Wired device
(iii) Wireless-enabled device (iv) None of the above
- 2 ----- was following information from IP header
(i) IPV4 (ii) IPV6
(iii) IP Fragmentation technique (iv) Datagram
- 3 Which of the following is required to transmit the digital information using a certain frequency by translating it into an analog signal?
(i) Demodulation (ii) Modulation
(iii) QPSK (iv) BSPK
- 4 Which of the following offers packet mode data transfer service over the cellular network?
(i) TCP (ii) GPRS
(iii) GSM (iv) None of the above
- 5 GSM stands for
(i) Global Service for mobile computing
(ii) Global structured for mobile calling
(iii) Global system for mobile communication
(iv) Global structure for mobile communication

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Explain about the various mobile computing devices.
OR
b Classify the types of wireless technology.
- 7 a Describe operation of TCP/IP concepts.
OR
b Narrate the Operations of Mobile IP
- 8 a Outline the different types of multiplexing.
OR
b Summarize the methods of modulation.
- 9 a State the cellular concepts with suitable diagrams.
OR
b Explain Frequency reuse in mobile computing with illustrations.
- 10 a Describe the types of GSM Network.
OR
b Outline GSM location Update.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Outline cellular system infrastructure with a diagram
OR
b Distinguish between Adhoc and Sensor Network.
- 12 a Discuss TCP for mobility in detail.
OR
b Examine the operations of mobile IP.
- 13 a Highlight the architecture of WAP.
OR
b Infer Wireless datagram protocol.
- 14 a Differentiate between Fixed and Dynamic channel assignment in mobile computing.
OR
b Summarize channel assignment strategies with examples.
- 15 a Examine GSM control channels.
OR
b Discuss in detail about mobility management in GSM.

Z-Z-Z END