N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS: MAY 2024

B.Sc. Information Technology   **MAXIMUM MARKS: 70**

SEMESTER : VI   **TIME : 3 HOURS**

PART - III
MOBILE COMPUTING
SECTION - A   **(10 X 1 = 10 MARKS)**

ANSWER THE FOLLOWING QUESTIONS.(K1)

1. Expand GSM _____
   a. General System for Mobile Communications.
   b. Global Service for Mobile Communications.
   c. Global System for Mobile Communications.
   d. Global System for Mobile Cellular.

2. Expand TDMA _____
   a. Time Division Multiple Access   b. Telephony Division Multiple Access
   c. Travel Division Multiple Access   d. Transfer Division Multiple Access

3. _____ is a killer application in GSM that allows users to seamlessly move around nationally and internationally and remain connected.
   a. Travelling   b. Roaming   c. Pager   d. Surfing

4. _____ is based on XML, is an obsolete markup language intended for devices that implement the WAP specification, such as mobile phones.
   a. Wireless Markup Language   b. Wireless Markup Lab
   c. Wired Markup Language   d. Wireless Makeup Language

5. _____ defines any network based on the 802.11 standards, allows computers and devices with wireless capacity to communicate via radio waves with other computers or devices.
   a. WiFi   b. Roaming   c. MMS   d. SMS

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES   **(K2)**

6. What is meant by Wireless Networks ?

7. Define Ring Tone (RT)

8. Write a Note on SMS

9. What is meant by Wireless Application Protocol in Mobile Computing?

10. Write a note on CDMA

SECTION – B   (5 X 4 = 20 MARKS)
ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K3)

11. a) Describe about Mobile Computing

(OR)

b) Explain the ways to make existing applications mobile-Enabled.

12. a) Describe in detail the Telephony Application Programming Interface(TAPI)

(OR)

b) Interpret in detail the Java Card

13. a) Explain in detail Call Routing in GSM

(OR)

b) Describe about SMS and its Strengths with it Architecture

14. a) Explain in detail the WAP

(OR)

b) Interpret in detail MMS and its Architecture

15. a) Compare in detail CDMA vs GSM

(OR)

b) Describe about Spread Spectrum Technology.

SECTION - C   (4 X 10 = 40 MARKS)
ANSWER ANY FOUR OUT OF SIX QUESTIONS
(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS
(FROM Qn. No : 17 to 21)   (K4/ K5)

16. Discuss the   Application and Services of Mobile Computing

17. Explain the Three-tier Architecture of Mobile computing

18. Elaborate the BLUETOOTH Technology

19. Illustrate in detail GSM and its Architecture

20. Discuss in the GPRS Network and its Architecture

21. Summarise about Wireless LAN

ETHICAL PAPER