(NO. OF PAGES: 2)

(FOR THE CANDIDATES ADMITTED DURING THE ACADEMIC YEAR 2021-22 ONLY)

SUBJECT CODE 21 UCT 6E1

REG.NO.

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

END-OF-SEMESTER EXAMINATIONS : MAY – 2024

B.Sc. – COMPUTER TECHNOLOGY **MAXIMUM MARKS: 70**

SEMESTER : VI **TIME : 3 HOURS**

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

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS. (K1)

1. _____ is a computing environment of physical mobility.

   a) LAN b) PAN c) Mobile Computing d) MAN

2. _____ is divided into channels of equal bandwidth so that each communication is carried on with a different frequency.

   a) FDMA b) TDMA c) CDMA d) SDMA

3. GSM stands for _____

   a) Group System Mobile b) Global System Mobile

   c) Group Specific Mobile d) Global Specific Mobile

4. _____ provides a reliable logical link between a MS and SGSN.

   a) RLC b) GTP c) PLL d) LLC

5. _____ is to mix the digital information stream with a pseudo random code.

   a) Direct sequence b) Chrip

   c) Frequency hopping d) Time Hopping

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

6. What is ICT?
7. What is CDMA?
8. Define EIR.
9. What is GPRS?
10. What is passive scanning?

(CONTD …. 2)

SECTION – B (5 X 4 = 20 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Describe middleware and gateways.

(OR)

b) Write short notes on networks.

12. a) What is voice XML?

(OR)

b) What is RFID?

13. a) Describe the strengths of SMS.

(OR)

b) Write short notes on SM MT.

14. a) Describe WAP application environment.

(OR)

b) Discuss MMS transaction flows.

15. a) What are the applications of 3G ?

(OR)

b) What are the types of wireless LAN?

SECTION – C (4 X 10 = 40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS .
(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS (K4/K5)

.

16. Discuss the application and services of mobile computing in detail.
17. Explain the concept three tier mobile computing architecture in detail.
18. Discuss Bluetooth technology in detail.
19. Explain the GSM entities in detail.
20. Discuss the GPRS network architecture in detail.
21. Explain the direct sequence spread spectrum technology in detail.