

5TH SEM./ CS& E/ IT /2023(W) NEW

Th-5 Mobile Computing

Full Marks: 80

Time- 3 Hrs

Answer any five Questions including Q No.1& 2
Figures in the right hand margin indicates marks

1. Answer **All** questions 2 x 10
 - a. Write down any four characteristics of Mobile Computing.
 - b. What does MSC stand for?
 - c. Write any two differences between Peer-to-Peer architecture and Client Server architecture.
 - d. What is the role of Mobile Agent?
 - e. Give an example of Hidden and Exposed Terminal.
 - f. Write down any two advantages of Radio Frequency.
 - g. What is the need of correspondent Node in terms of Mobile IP?
 - h. Write down the needs of Wireless Application Protocol.
 - i. Differentiate between CDMA and CDMA-2000.
 - j. What are the various components of UMTS architecture?
2. Answer **Any Six** Questions 6 x 5
 - a. Differentiate between CSMA/CA and CSMA/ CD.
 - b. Explain the working principal of Mobile IP.
 - c. Define Antenna. Classify different types of Antenna.
 - d. Differentiate between Piconet and Scatternet in Bluetooth communication.
 - e. Illustrate WWW architecture for Mobile Computing with proper diagram. .
 - f. Explain about the functional components of Global System for Mobile Communication.
 - g. Differentiate between SMS and MMS

Answer Any **Three** Questions
3. Briefly explain about all the generations of Mobile Communication. 10
4. Define Modulation. Elaborate different types of Modulation used in Mobile Computing. 10
5. Explain about the various standards of IEEE 802.11. 10
6. What does IS-95 stands for? Describe the architecture of IS-95. 10
7. Write short notes on- (Any two) 10
 - i. Wireless Sensor Network
 - ii. N-Tier architecture
 - iii. Near and Far Terminal
 - iv. GPRS