

5TH SEM / CS&E / IT / 2022(W)

Th5 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. Define GPRS.
 - b. What is the purpose of HLR?
 - c. What is Ad-Hoc Network?
 - d. Define DHCP.
 - e. What do you mean by SGSN?
 - f. What is Tunnelling Process?
 - g. Define I-mode.
 - h. Write the difference between Client-Server & Peer to Peer Architecture.
 - i. What is UMTS?
 - j. Define IEEE 802.11.

2. Answer **Any Six** Questions 6 x 5
 - a. Explain N-Tier architecture with suitable diagram.
 - b. Write the difference between IPV₄ & IPV₆ mobile IP.
 - c. What is WLAN? Write down the advantages and disadvantages of WLAN.
 - d. What do you mean by Rear-far & Hidden- exposed terminal?
 - e. Explain GPRS operations with its architecture.
 - f. What is Mobile IP and how it works?
 - g. Write the difference between SMS & MMS.

3. Define GSM. Explain with schematic diagram the system architecture of GSM with brief description of different components. 10
4. Explain all types of Multiple Access Techniques. 10
5. How does WAP work? Describe WAP protocol stack. Write the advantage of WAP. 10
6. Explain the types of Multiplexing Techniques. Write the Advantage of Multiplexing. 10
7. Write short notes on 10
 - i) Bluetooth
 - ii) WML