Paper/Subject Code: 87203/Money Sub:- MC/S. H. 2024
T.E. (CMP/Sem-VI/CBCGS) R-19/'C'Shew/Sub:- MC/S. H. 2024
Dato: -10/12/2024
BP. Code:-10068142
Marks: 80

## **Instructions to Candidates**

- 1. Question Number 1 is Compulsory, solve any 3 from Remaining Questions
- 2. Please Specify your answers with neat sketch wherever Necessary
- 3. Assume any suitable Data and Mention the same in your answer.

Q1. a) Compare all Mobile Generations i.e. 1G, 2G, 3G,4G and 5G.	10
b) Explain GPRS Architecture in detail.	10
Q2. a) Compare Infrastructure Based Network with Ad-hoc network	05
b) Explain GSM Authentication in brief	05
c) Explain in detail GSM System Architecture and Describe Function of Each	
Block.	10
Q3 a) How IP Packet Delivery Takes Place to and from Mobile Node? Explain in detail.	10
b) Explain Signal Propagation in detail. What are various Signal Propagation Effects?	10
Q4 a) Explain Mobile Terminated and Mobile Originated Call in detail.	10
b) Explain UMTS Architecture.	10
Q5 a) What is Snooping TCP? What are it's advantages and Disadvantages?	10
b) Explain need of Mobile Communication in various areas.	10
Q6 a) Write a Short Note on the following	10
1) Tunnelling and Encapsulation Mobile	
2) Agent Advertisement and Agent Discovery	
b) Draw a neat sketch of Bluetooth protocol Stack and explain the same	10