

Total number of printed pages-3

53 (CS 712) MBCP

2021
(Held in 2022)

MOBILE COMPUTING

Paper : CS 712

Full Marks : 100

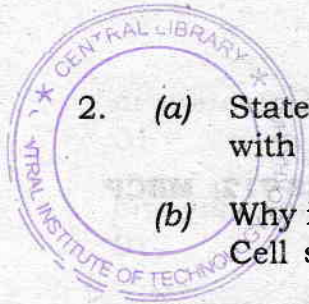
Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

1. (a) Define various characteristics and applications of Mobile Computing. 10
- (b) With sequence diagram, explain call establishment process in 2G Network. 5
- (c) Discuss the roles of HLR and VLR. 5

Contd.



2. (a) State and explain GSM Architecture with neat sketch diagram. 10
(b) Why is Hexagon considered as standard Cell shape? Justify. 5
(c) Define types of antennas and their characteristics. 5
3. (a) List the challenges faced by wireless communication. 10
(b) Define *ad hoc* network and its various types. 10
4. (a) Define Handover and its types in Cellular network. 10
(b) Discuss various security issues in wireless network. 5
(c) Discuss Privacy issue that you think are serious concerns. 5
5. (a) Discuss the concept of Hidden and Exposed Terminal Problems and possible solutions. 10
(b) Explain merits and demerits of snooping TCP and indirect TCP. 10

6. (a) Discuss about Mobile IP Operation in details. 10
- (b) Discuss about Mobile IP Tunneling and Encapsulation in details. 10
7. (a) Define the concept of MANET and discuss its applications. 10
- (b) Compare Proactive and Reactive protocols with examples. 10

