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Roll No. 2192046

**TBC-604 (2)**

**B. C. A. (SIXTH SEMESTER)**

**MID SEMESTER**

**EXAMINATION, March, 2024**

**MOBILE COMPUTING**

**Time : 1½ Hours**

**Maximum Marks : 50**

**Note :** (i) Answer all the questions by choosing any *one* of the sub-questions.

(ii) Each sub-question carries 10 marks.

1. (a) Define Mobile Computing. List the advantages of mobile computing. Distinguish between mobile computing and wireless networking. (CO1)

OR

- (b) Mention the applications of Mobile Computing. Discuss challenges in Mobile Computing. (CO1)

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2. (a) What is the concept of cellular network ?  
Discuss why cellular shape is preferred for  
mobile communication. (CO1)

OR

- (b) Describe GSM architecture and its  
services in detail. (CO1)
3. (a) Discuss Wireless MAC. Explain FDMA,  
TDMA and CDMA in detail. (CO1)

OR

- (b) Sketch the protocol stack of Bluetooth  
standard and also discuss the architecture  
of the Bluetooth technology. (CO1)
4. (a) Write short notes on the following :  
(CO2)
- (i) Basic concept of multihopping
  - (ii) Adhoc network

OR

- (b) Discuss why the data replication is  
required for mobile nodes. Discuss various  
Replication schemes also. (CO2)

(3)

5. (a) Write short notes on the following : (CO2)

(i) Handover

(ii) Multicluster architecture

OR

(b) With the help of suitable diagrams, discuss the basic concept of wireless communication and portability. (CO2)