Roll No ....

MCADD-805 (1)
M.C.A. (Integrated), VIII Semester
Examination, May 2022
Mobile Computing
(Elective - IV)
Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Draw and explain the concept of Wireless Cellular Networks.

   b) Draw the frequency spectrum of frequencies used for radio frequency transmission.

2. a) With the help of a diagram explain system architecture of GSM.

   b) Describe the registration of a visiting Mobile node on handover.

3. What is Multiplexing? Define following techniques of multiple access.
   a) SDMA
   b) FDMA
   c) TDMA
   d) CDMA

4. a) Explain about GPRS system in detail.

   b) Draw and discuss the protocol architecture of IEEE 802.11.

5. a) What is Ad hoc Network? Write its features and applications.

   b) Give a classification of Routing techniques of Ad hoc Networks. Explain DSDV routing.

6. a) What are the functions of authentication and encryption in GSM?

   b) Explain the working principle of dynamic source routing in adhoc network with an example?

7. a) What do you mean by WAP? Give WAP architecture.

   b) Give an overview of WML script.

8. Explain the following any two :
   i) Bluetooth
   ii) Dynamic host configuration protocol
   iii) Cellular wireless network

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