Roll No ....

MCADD-805 (1)

M.C.A. (Integrated Course), VIII Semester

Examination, May 2019

Mobile Computing

(Elective - IV)

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

    ii) All questions carry equal marks.

1. a) Is a directional antenna useful for mobile phones? Why and enlist the applications of Mobile computing?

   b) Compare SDMA, FDMA, TDMA and CDMA?

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. a) How the handover decision take place in GSM depending on receiver signal strength? Explain?

   b) Discuss same of the issues present in an adhoc network? And discuss any one on demand routing protocol used for routing in this network ?

4. a) Explain about GPRS system in detail ?

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

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5. a) Explain snooping TCP. Give the advantage and disadvantage of snooping TCP?

   b) Explain Mobile TCP? Give the advantage and disadvantage of Mobile TCP?

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) Differentiate Mobile computing and wireless networking? What are the limitations of Mobile computing?

   b) What are the requirement to Mobile IP. Discuss Mobile IP in detail?

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

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