Roll No. | | | | | | | | | | | | Total No. of Pages : 02

Total No. of Questions : 09

BMCI (2014 & Onwards) (Sem.–6)

MOBILE ADHOC NETWORKS

Subject Code : BMCI - 603

M.Code : 74317

Time : 3 Hrs. Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1) Explain the following :

a) What is reactive routing protocol? Give example.

b) How heterogeneity in mobile devices effect mobile communication?

c) Define Wormhole attack.

d) Which type of applications use IEEE 802.15 standard?

e) What is multipath fading?

f) What is inter-symbol interference?

g) What are the effects of induced traffic in ad hoc network?

h) List the characteristics of wireless channel.

i) What do you mean by slow-start in TCP?

j) What is the maximum achievable data rate over a 9KHz channel with signal to noise ratio 20dB?

SECTION-B

2) What are the advantages of distributed power control algorithms in ad hoc wireless networks over the centralized power control algorithms?

3) List the issues in designing a transport layer protocol for ad hoc networks.

4) Compare and contrast the IEEE 802.11e MAC protocol with the DBASE protocol.

5) Discuss the impact of discharge characteristics on battery capacity.

6) What role does the routing protocol play in the provisioning of QoS guarantees for ad hoc wireless networks?

SECTION-C

7) Explain the working of AODV routing protocols with the help of suitable example. List its advantages and disadvantages.

8) List the features of multiple access collision avoidance protocol for wireless LANs (MACAW). How packet exchange happen in MACAW protocol? Explain with the help of suitable example scenario.

9) Write short note on :

a) Components of Packet Radios

b) Issues in providing QoS in Ad hoc wireless networks

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.