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B.Tech IV Year II Semester (R13) Advanced Supplementary Examinations July 2018

MOBILE COMPUTING

(Common to CSE and IT)

Time: 3 hours Max. Marks: 70

PART - A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
 - (a) Name three MAC services provided by the IEEE 802.11 that are not provided in the traditional LANs.
 - (b) What are the goals of mobile IP.
 - (c) What is replay attack?
 - (d) What are the major advantages of the ad hoc wireless internet?
 - (e) List the key issues involved in QoS routing in ad hoc networks.
 - (f) What additional state information is to be maintained at the FP in TCP-F?
 - (g) What are the advantages of having transmission opportunities (TXOPs) in the IEEE 802.11e MAC protocol?
 - (h) List the advantages of distributed power control algorithms in ad hoc wireless networks over the centralized power control algorithms.
 - (i) What are the advantages of a clustered architecture over a layered architecture in a sensor network?
 - (j) List the challenges in designing a sensor network.

PART - B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT - I

Why do we have four address fields in IEEE 802.11 MAC as against only two in IEEE 802.3 MAC frame? Explain.

OR O

3 Discuss the deployment scenarios for HIPERLAN standards.

UNIT - II

What do you mean by hidden terminal problem and exposed terminal problems? How can we overcome those problems?

OR

5 What role does the routing protocol play in the provisioning of QoS guarantees for Adhoc wireless networks?

UNIT - III

6 Discuss the differences in topology reorganization in DSDV and CGSR routing protocols.

OR

7 Discuss the impact of the failure of proxy nodes in Split-TCP.

[UNIT - IV]

8 Explain how a node estimates its expected location and under what circumstances the node generates a Type2 update message in PLBQR protocol.

OR

9 What is clustering? Explain the disadvantages of clustering in ad hoc wireless networks.

[UNIT - V]

10 List and explain the advantages of a clustered architecture over a layered architecture in a sensor network.

OR

11 Write short notes on LEAP security protocol.

