R13

B.Tech IV Year II Semester (R13) Advanced Supplementary Examinations July 2017
MOBILE COMPUTING
(Common to CSE & IT)

Time: 3 hours

Max. Marks: 70

PART - A
(Compulsory Question)
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1   Answer the following: (10 X 02 = 20 Marks)

(a)   What are the uses of WLANS?

(b)   State the challenges in wireless communication.

(c)   List the issues in designing a MAC protocol for Ad hoc networks.

(d)   Give the classification of contention based protocol.

(e)   Mobility of nodes in a sparsely populated mobile Ad hoc network is less. What is the choice between proactive routing protocol and reactive routing protocol?

(f)   Write any two advantages and disadvantages of application controlled transport protocol.

(g)   Write about domain classification in QOS?

(h)   What is the need for energy management in Ad hoc wireless networks?

(i)   What are the components of WSN?

(j)   Write short note on different operational states of transceiver in WSN.

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

UNIT - I

2   Write in detail about the functionalities provided by MAC layer in IEEE 802.11 WLANs.

OR

3   Explain indirect TCP and mobile TCP in wireless domain.

UNIT - II

4   Explain MACAW protocol in detail.

OR

5   Write the design goals of a MAC protocol for Ad hoc wireless networks.

UNIT - III

6   Explain any one of table-driven routing protocols in detail.

OR

7   Write in detail about key management approaches.

UNIT - IV

8   Write in detail about QOS framework for Ad hoc wireless networks (any one).

OR

9   Explain system power management schemes.

UNIT - V

10   Write in detail about data dissemination in WSN.

OR

11   Explain self-organizing MAC for sensor networks and eavesdrop and register.

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