

Code: 13A05801

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)

- 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.