

Code: 13A05801

B.Tech IV Year II Semester (R13) Regular Examinations April 2017

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) Write any two advantages and disadvantages of WLAN.
 - (b) What is wireless internet?
 - (c) What are the classifications of MAC protocol?
 - (d) What do you mean by contention based protocols?
 - (e) What is hybrid routing protocol?
 - (f) What are the types of network security attacks?
 - (g) What are the challenges in QOS?
 - (h) What is energy efficient design?
 - (i) What is wireless sensor network?
 - (j) What is the MAC protocol used in sensor network?

PART – B

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

UNIT – I

- 2 Write in detail about the types of WLANs, the components of a typical WLAN and the services offered by a WLAN.

OR

- 3 Explain route optimization and security in mobile IP.

UNIT – II

- 4 Illustrate various steps involved in five phase reservation protocol with its frame format.

OR

- 5 List and explain the issues in designing a MAC protocol for Adhoc wireless networks.

UNIT – III

- 6 Explain any one of the on-demand routing protocols in detail.

OR

- 7 Explain the design goals of a transport layer protocol for Adhoc networks.

UNIT – IV

- 8 Write in detail about QOS enabled Adhoc on-demand distance vector routing protocol.

OR

- 9 Explain battery management schemes.

UNIT – V

- 10 Write in detail about clustered architecture in WSN.

OR

- 11 Explain power efficient gathering for sensor information systems.
