

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)

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- 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.

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