

Seat No.	
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**T.E. (CSE) - I (Semester - V) (Revised)****Examination, May - 2017****NETWORK TECHNOLOGIES****Sub. Code :66297****Day and Date : Friday, 19 - 05 - 2017****Total Marks : 50****Time : 09.00 a.m. to 11.00 a.m.**

- Instructions :**
- 1) Question No.1 is compulsory.
  - 2) Solve any three questions from Q. No. 2 to Q. No. 5.
  - 3) Figures to the right indicates full marks.
  - 4) Assume data wherever necessary.

- Q1) a)** What is GSM ? Explain GSM network architecture. [6]
- b) What is BSSID ? How it is useful in WLAN technology. [4]
- c) Explain WEP protocol. [4]
- Q2) a)** Explain sensor node architecture. [4]
- b) Explain the node mobility issue in designing of routing protocols for wireless networks. [3]
- c) Determine the frequency reuse distance for a cell radius of twenty kilometers and a cluster size of 7. [3]
- d) How TDMA time slot is encoded with normal signal burst. [2]
- Q3) a)** What is the role of location updating in GSM ? Explain normal location updating with necessary diagram. [6]
- b) Explain Distribution Station Services (DSS) in WLAN. [4]
- c) What are passive attacks ? Explain any one with example. [2]

**P.T.O.**

- Q4)** a) What is sensor network ? Explain components of sensor network. [4]  
b) Explain induced traffic issue in transport layer protocol design for wireless network. [4]  
c) Explain the concept of time division duplex. [4]
- Q5)** a) Draw and explain Bluetooth scatternet architecture. [6]  
b) Explain various design goals of a transport layer protocol for wireless network. [6]

