

SF - 231

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Seat No.	
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T.E. (CSE) (Semester - V) (Revised)

Examination, November - 2017

NETWORK TECHNOLOGIES

Sub. Code : 66297

Day and Date : Wednesday, 22 - 11 - 2017

Total Marks : 50

Time : 9.30 a.m. to 11.30 a.m.

- Instructions :**
- 1) **Question Number One is compulsory.**
 - 2) **Attempt any THREE questions from Question No. TWO to FIVE.**
 - 3) **Figures to the right indicate full marks.**
 - 4) **Assume data wherever necessary.**

- Q1) a)** Explain issues in designing a MAC protocol for AD HOC Wireless Networks. **[6]**
- b) Explain FCCH and SCH channels in GSM operation. **[4]**
- c) What is VPN? Explain VPN protocols. **[4]**
- Q2) a)** What is GSM? Explain the role of IHLR and VLR in GSM service operations. **[6]**
- b) What is Handoff operations? Explain inter BSC handoff. **[6]**
- Q3) a)** What is WLAN? Explain various standards in WLAN defined by IEEE. **[6]**
- b) Explain sensor network node architecture. **[6]**
- Q4) a)** Draw and explain Bluetooth piconet architecture. **[4]**
- b) Explain WEP protocol. **[4]**
- c) How sensor network is useful in environmental monitoring. **[4]**

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- Q5)** a) What is location updating in GSM. Explain various steps involved in normal location updating. [6]
- b) Compare WLAN and WPAN networks. [3]
- c) Explain necessity of security in wireless network. [3]

