

Code No: 57053

**R09**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B. Tech IV Year I Semester Examinations, March - 2017**

**MOBILE COMPUTING**

**(Computer Science and Engineering)**

**Time: 3 Hours**

**Max. Marks: 75**

**Answer any Five Questions  
All Questions Carry Equal Marks**

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1. Write about the GSM services and also explain the role of HLR entity of a GSM network. [15]
- 2.a) Write about Wireless LAN (IEEE802.11).  
b) How to avoid hidden and exposed terminal problems? Explain. [8+7]
- 3.a) Discuss about Tunneling and Encapsulation.  
b) Explain about the mobile IP. [7+8]
4. Define protocol and compare the Indirect TCP and Snooping TCP. [15]
5. Write about Data base Hoarding and Caching techniques. [15]
6. What is mean by Data Dissemination? Write about the synchronization usage models in mobile applications. [15]
- 7.a) What is MANET? Explain.  
b) Explain about the DSDV routing algorithm for MANETS. [7+8]
8. What is WAP? Draw and discuss the protocol architecture of WAP. [15]

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