

**B.Tech. - VIEP - COMPUTER SCIENCE AND  
ENGINEERING (BTCSVI)**

**Term-End Examination**

**June, 2017**

**00734**

**BICSE-014 : MOBILE COMPUTING**

*Time : 3 hours*

*Maximum Marks : 70*

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**Note :** Answer any **seven** questions. All questions carry equal marks.

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1. How are localization, location update and roaming done in GSM ? How is this information updated in a database ? Do these operations have any effect on QoS ? 10
  
2. What is adaptive clustering ? Explain the adaptive clustering for mobile wireless networks in detail. 10
  
3. (a) Compare IEEE 802-11 and Bluetooth in respect of their domain of applications. 5  
(b) Discuss GPRS architecture reference model with the help of a diagram. 5
  
4. Explain in detail how a foreign agent is discovered in mobile IP. 10

5. (a) Discuss call blocking and call dropping conditions. 5
- (b) What is hand-off ? Briefly explain the need of handling hand-off calls on priority. 5
6. What are the different security issues in mobile computing ? 10
7. What is an Ad Hoc network ? Explain global state routing. 10
8. Explain code division multiplexing. List its advantages and disadvantages. 10
9. What is WAP ? Explain WAP architecture briefly. 10
10. Explain any *two* of the following : 5+5
- (a) MAC Issues
- (b) TCP Over Wireless
- (c) Mobile IP
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