

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

00273

**Term-End Examination**

**December, 2018**

**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. What is the importance of HLR and VLR in call processing ? Explain in detail. 10
  
2. What are the main problems, when transmitting data using wireless systems ? What are the possible steps to mitigate and improve efficiency ? 10
  
3. What are the advantages and drawbacks of forwarding mechanisms in bluetooth networks regarding security, power saving and network stability ? 10
  
4. How does standard TCP respond to packet loss ? What are the problems encountered in running TCP over wireless networks ? 10

5. Discuss in detail about data management issues involved in mobile computing. 10
6. Explain the importance of data replication in mobile computing. What are the various provisions of data replication in mobile computing? 10
7. What are the main properties of a mobile agent? Draw and explain the lifecycle of a mobile agent. 10
8. Why does WAP define its own security layer and not rely on the security provided by the mobile phone network? What are the problems of WAP security layer? 10
9. How does Dynamic Source Routing (DSR) handle routing? Compare Dynamic Source Routing (DSR) with DSDV. 10
10. Explain any *two* of the following : 5+5=10
- (a) Localization
  - (b) QoS in ad hoc networks
  - (c) Data broadcasting
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