| BICSE-014 |

## B.Tech. – VIEP – COMPUTER SCIENCE AND ENGINEERING (BTCSVI)
### Term-End Examination
□□320   **December, 2017**

### BICSE-014 : MOBILE COMPUTING

*Time : 3 hours*                    *Maximum Marks : 70*

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

1.  What is Mobile Computing ? How is it different from conventional computing ? Briefly discuss any three issues in mobile computing.    *10*

2.  Explain the role of HLR and VLR in call processing in mobile communication.    *10*

3.  What do you mean by Quality of Services (QoS) in mobile computing ? How do issues of security and fault tolerance affect the QoS ?    *10*

4.  Explain Destination Sequenced Distance Vector (DSDV) routing algorithm.    *10*

5.  What is Adaptive Clustering ? Explain the adaptive clustering for wireless mobile in detail.    *10*

**6.** (a) Explain why handling client mobility is one of the major challenges in mobile computing. *5*

(b) Discuss in brief, any two applications of the ad hoc network. *5*

**7.** What is a Mobile Agent ? Explain its advantages in mobile computing with the help of an example. *10*

**8.** What is MAC protocol ? At which layer of LAN does it work ? List the issues associated with MAC protocol. *10*

**9.** (a) Why has scripting language been added to WML ? How does this language help in saving bandwidth ? *5*

(b) Explain the complexities associated with transaction processing in mobile computing. *5*

**10.** Write short notes on any *two* of the following : *5+5=10*

(a) QoS in Ad Hoc Network

(b) Signal Interference

(c) Mobile IP

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