BICSE-014

B.Tech. – VIEP – COMPUTER SCIENCE AND ENGINEERING (BTCSVI)
Term-End Examination
June, 2018

00523

BICSE-014 : MOBILE COMPUTING

Time : 3 hours   *Maximum Marks : 70*

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

1. Give reasons for a handover in GSM and problems associated with it. What are typical steps for handover ? What are different types of handovers ?   *10*

2. What is CDMA ? Draw and explain the forward channel structure of CDMA.   *10*

3. What is the main physical reason for the failure of many MAC schemes known from wired networks ? What is done in wired networks to avoid this effect ?   *10*

4. What is the difference between WAP service indication and service loading ? What applications could use these services ?   *10*

5. What is the requirement of different file systems for mobile or wireless networks ? How does the Coda file system meet these requirements ?   *10*

6. Explain in detail the channel allocation in cellular systems.   *10*

7. List the entities of Mobile IP and describe data transfer from a mobile node to a fixed node and vice versa. Why and where is encapsulation needed in Mobile IP ?   *10*

8. What are the differences between AODV and the standard distance vector algorithm ? Why are extensions needed in AODV ?   *10*

9. What are the benefits of location information for routing in ad-hoc networks ? What are the problems encountered during the routing process ?   *10*

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

   (a) TORA

   (b) CDMA

   (c) GSR