Exam.Code:0925
Sub. Code: 6369

1078
B.E. (Information Technology)
Seventh Semester
IT-743: Mobile Computing

Time allowed: 3 Hours   Max. Marks: 50

NOTE: *Attempt* <u>*five*</u> *questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.*

x-x-x

I.   Attempt the following:-

   a) What is Time-out freezing?

   b) Describe Proactive Routing Protocols?

   c) Explain the Mechanism of M-TCP.

   d) Define frequency re-use.

   e) What is tunnelling as seen in mobile network layer?   (5x2)

UNIT – I

II.   With the help of block diagram, explain the working of a GSM system.   (10)

III.   How and why does Indirect TCP isolate problems on the wireless link? What are the main drawbacks of this solution?   (10)

IV.   a) How does CDMA prove advantageous in mobile computing?

       b) What do you understand by DHCP?   (5,5)

UNIT – II

V.   a) Describe the various database issues in terms of hoarding, query processing, recovery and QoS.

       b) What are the features offered by Manets?   (5,5)

VI.   Compare the following:-
       a) 'Table Driven' and 'On Demand' routing Protocols.
       b) Pull based; Push Based and hybrid mechanisms.   (5,5)

VII.   a) Describe the characteristics of J2ME in detail.
       b) How is security ensured in Bluetooth technology?   (5,5)

x-x-x