CMCSQ/D-23   **24048**

MOBILE COMPUTING
MS 20-34(i) (CBCS)

Time : Three Hours]   [Maximum Marks : 75

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. **1** is compulsory. All questions carry equal marks.

Compulsory Question

1. Answer any *five* question in brief of the following :
   (i) Explain in brief about Handover.
   (ii) Explain the concepts of UMTS.
   (iii) Explain High Speed Packet Access(HSPA) in brief.
   (iv) What is LTE concept.
   (v) Define and explain TCP over 2.5/3G wireless networks.
   (vi) Explain MANET.   **5×3=15**

Unit I

2. Explain the following :   **2×7½=15**
   (a) Explain the concepts of Data Dissemination.
   (b) Explain the components of Cellular System.

3. What is Frame Relay Networks ? Also explain high speed networks.   **15**

Unit II

4. What is addressing ? Explain the various types of addresses and ARP protocols in details.   **15**

5. What is subnetting & Supernetting? What is the difference between classful addressing and classless addressing in IPv4 ?   **15**

Unit III

6. What is Client/Server Paradigms ? Bring out a distinction between the various transport layer protocols of the TCP/IP architecture along with a specification of their frame format.   **15**

7. Explain, how is routing carried out in the internet using OSPF ? In what way is OSPF differ from BGP and RIP.   **15**

Unit IV

8. Give a brief introduction to VANETs and differentiate VANET *vs* MANET.   **15**

9. Explain the following :   **2×7½=15**
   (a) Mobile Agent and Application Server
   (b) Mobile Application Development Platforms