Full Marks: 80   Time- 3 Hrs

Answer any five Questions including Q No.1& 2
Figures in the right hand margin indicates marks

1.   Answer **All** questions   2 x 10

   a.   Outline the various dimensions of Mobile Computing.

   b.   Differentiate between ground wave propagation and Sky wave propagation.(any two)

   c.   What do you mean by spread spectrum?

   d.   What is hidden/exposed terminal?

   e.   How does RF work?

   f.   Define MAC layer.

   g.   What do you mean by roaming?

   h.   What is the need of WAP?

   i.   What do you mean by ubiquitous network?

   j.   Write the different classes of GPRS device.

2.   Answer **Any Six** Questions   5X6

   a.   Explain any five characteristics of mobile computing.

   b.   Briefly explain the working principle of Mobile agent.

   c.   Sketch and explain about the layers of N-tier architecture in Mobile Computing.

   d.   Define Infrared radiation. Write any five advantages and disadvantages of IR .

   e.   Explain IEEE 802.11 and its architecture.

   f.   What is Piconet? How Piconet is different from Scatternet.

   g.   Write any five comparisons between Mobile IPv4 and Mobile IPv6.

3   Define Multiplexing. Explain different types of Multiplexing techniques used in   10
        Mobile Computing.

4   What do you mean by Rear/Far Terminals? Write and explain the basic access   10
        mechanism used in Mobile Computing.

5   Outline the various services supported by UMTS. Give a brief description about   10
        the channels in UMTS?

6   Define GPRS .Explain the architecture of GPRS in brief.   10

7   What does MMS stand for? Elaborate the working principal of MMS. Write   10
        down the different formats supported by MMS.

1