Code: IT7T3

IV B.Tech - I Semester – Regular / Supplementary Examinations
JANUARY - 2022

MOBILE COMPUTING
(INFORMATION TECHNOLOGY)

Duration: 3 hours   Max. Marks: 70

PART – A

Answer **all** the questions.   All questions carry equal marks

$$11x\ 2 = 22\ M$$

1.

a) List Mobile Computing system layers.

b) What is Base Transceiver Station (BTS)?

c) Define CDMA.

d) What Mobile IP does?

e) What are the phases of TCP?

f) What is Client initiated refresh synchronization?

g) List Advantages of a mobile agent.

h) List MANET applications.

i) Define data dissemination.

j) What are the functions of User Agent?

k) Define WCMP (Wireless Control Message Protocol).

PART – B
Answer any ***THREE*** questions. All questions carry equal marks.

$$3 \times 16 = 48 \text{ M}$$

2. a) Explain Network and switching subsystem of GSM.   8 M

   b) Compare SDMA, FDMA, TDMA and CDMA.   8 M

3. a) Explain Generic routing encapsulation in MobileIP.   8 M

   b) Write short notes on Indirect TCP.   8 M

4. Explain Usage Models for Synchronization in Mobile
   Applications.   16 M

5. a) Demonstrate Mobile ad-hoc network (MANET)
      Infrastructure architecture.   8 M

   b) Explain about Wireless Sensor Networks.   8 M

6. a) Explain Wireless LAN Protocol layers (IEEE 802.11). 8 M

   b) Demonstrate WTLS specifications.   8 M