

Code: IT7T3

**IV B.Tech - I Semester – Regular/Supplementary Examinations
March - 2021**

**MOBILE COMPUTING
(INFORMATION TECHNOLOGY)**

Duration: 3 hours

Max. Marks: 70

PART – A

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

11 x 2 = 22 M

1.

- a) What is Mobile Computing?
- b) How GSM provides security?
- c) Define SDMA.
- d) List goals of Mobile IP.
- e) What is Traditional TCP?
- f) What is Server-alerted synchronization?
- g) List Characteristics of a mobile agent.
- h) Find the problem with fixed infrastructure network.
- i) List MANET Properties.
- j) What are the functions of MAC management sub-layer?
- k) Define WML Script.

PART – B

Answer any **THREE** questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) Explain Radio subsystem of GSM. 8 M

b) Illustrate Multiple Access with Collision Avoidance. 8 M

3. a) Explain IP-in-IP-encapsulation. 8 M

b) Demonstrate Snooping TCP as a Transparent TCP extension. 8 M

4. a) Explain how Synchronization is achieved in Mobile computing systems. 8 M

b) Illustrate Mobile agent-based architecture. 8 M

5. a) Demonstrate Mobile Ad-hoc Network (MANET) Organization. 8 M

b) Explain Mobile Ad-hoc Network (MANET) Security. 8 M

6. Explain Wireless Application Protocol (WAP 1.1) Architecture. 16 M