

Code: IT7T3

**IV B.Tech - I Semester – Regular/Supplementary Examinations
October - 2018**

**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 the difference between mobile communication and computing?
- b) What are novel applications?
- c) What is MAC?
- d) Draw mobile IP example network.
- e) Define encapsulation with respect to Mobile IP.
- f) What is synchronization?
- g) Define Mobile agent.
- h) Define sensor network .
- i) Define spectrum.
- j) What is WAP?
- k) What is mobile OS?

PART – B

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

3 x 16 = 48 M

2. a) What are GSM services? Draw and Explain GSM Architecture. 8 M
- b) Compare SDMA, FDMA, TDMA, CDMA 8 M
3. a) Explain dynamic host configuration protocol. 6 M
- b) Discuss traditional TCP improvements in congestion control. 10 M
4. a) Explain synchronization in mobile computing. 8 M
- b) What are domain –dependent specific rules for data synchronization. 8 M
5. a) What are MANETS? Explain fixed infrastructure Architecture. 8 M
- b) Explain security in ad-hoc networks. 8 M
6. a) Discuss wireless application environment. 8 M
- b) Explain the architecture of wireless datagram protocol. 8 M