

H.T.No. 

--	--	--	--	--	--	--	--	--	--

Code No: IT1525

GEC-R14

IV B. Tech I Semester Regular Examinations, November 2017

**MOBILE COMPUTING**

(Information Technology)

Time: 3 Hours

Max. Marks: 60

**Note:** All Questions from **PART-A** are to be answered at one place.  
Answer any **FOUR** questions from **PART-B**. All Questions carry equal Marks.

**PART-A**

**6 × 2 = 12M**

1. List out the limitations of mobile computing.
2. List out the multimedia features of smartphone.
3. Define WCDMA. List any two standards of WCDMA.
4. a) What is encapsulation in mobile IP?  
b) Why standard TCP is not suitable for wireless networks?
5. Outline the MANET spectrum signals.
6. What are the different drawbacks in wireless transaction and session layers?

**PART-B**

**4 × 12 = 48M**

1. a) What are the advantages and disadvantages of using a wireless transmission as compared to a fibre or wire transmission? (6M)  
b) Describe the functions of an OS in a mobile system. (6M)
2. Explain the steps involved in the call delivery procedure in GSM network in the following cases:  
i) GSM mobile terminated call. ii) GSM mobile originated call. (12M)
3. a) Illustrate different types of multiplexing methods in wireless medium access control. (8M)  
b) Outline the concept of IMT-2000 3G Wireless Communication Standards. (4M)
4. a) Explain mobile TCP. How does a supervisory host send TCP packets to the mobile node and to a fixed TCP connection? (8M)  
b) Define care of address (COA) and what are the two different possibilities for the location of the COA? (4M)
5. a) Explain how MANETs are deployed in various applications. (6M)  
b) Describe the properties of MANETs. (6M)
6. Explain Wireless networking and wireless LAN. (12M)

\*\*\*\*\*