Code: **17CSCS1T6C**

I M.Tech-I Semester-Regular Examinations-February 2018

WIRELESS & MOBILE NETWORKS
(COMPUTER SCIENCE & ENGINEERING)

Duration: 3 hours   Max Marks: 60
Answer the following questions.

1. a) What is data transmission? Draw and explain internet
      network architecture.   8 M
   b) What are application protocols? Explain briefly.   7 M
                                (OR)
2. a) What is www? Explain routing protocols briefly.   8 M
   b) What is Ethernet packet format? Explain transmission
      algorithm and MAC address.   7 M

3. a) Draw and explain the IEEE 801.11 architecture.   8 M
   b) Explain the collision avoidance procedure in WLAN.   7 M
                                (OR)
4. a) Write short notes on the configurations of Physical and
      MAC layers of 802.11n.   8 M
   b) What is RF channel access? Explain Power management.
                                                                                       7 M

5. a) Explain WiMAX standards and advantages.   7 M
   b) Draw and explain WiMAX architecture.   8 M

<div align="center">(OR)</div>

6. a) Discuss WiMAX network layers.   8 M
   b) Explain WiMAX interference reduction technologies.

                                                                  7 M

7. a) Draw and explain UMTS architecture.   8 M
   b) Explain Multimedia broadcast/ Multicast service in LTE.

                                                                  7 M

<div align="center">(OR)</div>

8. a) Discuss PHY characteristics and performance in LTE.

                                                                  8 M

   b) Explain LTE networks have to work with a small reuse
      factor in the network.   7 M