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MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

VII SEMESTER B.TECH. (COMPUTER SCIENCE AND ENGINEERING)

MAKE UP EXAMINATIONS, JAN 2018

SUBJECT: WIRELESS NETWORKS [CSE 4016]

REVISED CREDIT SYSTEM

(02/01/2019)

Time: 3 Hours

MAX. MARKS:50

Instructions to Candidates:

- ❖ Answer **ALL** questions.
- ❖ Missing data may be suitable assumed.

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| 1A. | Explain any four wireless network challenges | 2M |
| 1B. | Describe the following wireless propagation characteristics | 5M |
| | a) Free space path loss | |
| | b) Doppler shift | |
| | c) Reflection | |
| | d) Scattering | |
| | e) Diffraction | |
| 1C. | How is packet switching in wireless network different than that of wired network? | 3M |
| 2A. | Write series of events that occur during handoff in AMPS. | 3M |
| 2B. | Draw timing diagram of interBSC and intraBSC handoff. | 5M |
| 2C. | List any four 3G applications. | 2M |
| 3A. | Briefly explain user equipment and Home Subscriber Server. | 2M |
| 3B. | With a neat diagram, explain WLAN topologies. | 4M |
| 3C. | Explain the layers of HiperLAN1 protocol stack. | 4M |
| 4A. | What is the difference between fixed and mobile wireless systems? Explain them. | 3M |
| 4B. | With help of a diagram, explain WATM architecture? | 4M |
| 4C. | What is the responsibility of Radio Resource Control(RRC).Explain the functions controlled by RRC of hiperLAN 2. | 3M |
| 5A. | How is zigbee different from bluetooth? | 3M |
| 5B. | Explain the frame format of Bluetooth. | 4M |
| 5C. | Describe direction based geolocation technology with its advantages and disadvantages. | 3M |

