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Total No. of Pages : 01

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M.Tech.(CSE Engg.)E-II (2018 Batch) (Sem.-1)
ADVANCED WIRELESS AND MOBILE NETWORKS

Subject Code : MTCS-110-18

M.Code : 75160

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWELVE marks.

1.
 - a) What are hidden and exposed networks? Give an example where hidden network problem occur in DSR (Dynamic Source Routing).
 - b) How proactive routing protocol is different from reactive routing protocols?
2.
 - a) What is TDMA? Explain the different features of TDMA.
 - b) Explain the differences between PURE and Slotted ALOHA. Determine the maximum throughput that can be achieved in slotted ALOHA protocols.
3. Will other RF devices interfere with Bluetooth Devices? Will Bluetooth and WLAN interfere with each other? How frequency hopping is used for security in Bluetooth?
4.
 - a) Describe the advantages, drawbacks, and the various transmission techniques of infrared LANs.
 - b) Explain the IEEE 802.11 architecture with a neat figure and discuss its services.
5.
 - a) Define Raging procedure in WiMax and what are the frequencies used by WiMax networks?
 - b) Describe MAC layer and Network layer.
6. How do the security issues of WSN different from an adhoc network? Can we use spread spectrum modulation scheme for WSN?
7.
 - a) Wireless intrusion can be detected but cannot be prevented true/false? What are denial of Service and MAC spoofing?
 - b) Explain basics of zigbee technology.
8. Discuss various DoS in wireless communication

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

