

2056

B. Voc. (Hardware and Networking)

Sixth Semester

HWN-603: Wireless Communication and Networking

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit

x-x-x

I. Write a note on the following:-

- a) Wireless LAN
- b) Packet Radio
- c) Traffic routing in wireless networks
- d) Mobile application protocols

(4x2)

UNIT - I

II. Explain the evolution of mobile radio communication systems. Also describe different examples of wireless communication systems. (8)

III. Describe the architecture and features of 2nd generation (2G) cellular networks. Discuss the features and improvements of 3rd generation (3G) wireless networks over 2G systems. (8)

UNIT - II

IV. Explain the concept of spectrum allocation in cellular systems. Also explain handoff strategies in cellular systems. (8)

V. Explain the concept of multiple access in wireless communication. (8)

UNIT - III

VI. Differentiate between wireless and fixed telephone networks. (8)

VII. Explain IS-95 CDMA forward channel and reverse channel. Also describe packet and frame formats in IS-95. (8)

UNIT - IV

VIII. Differentiate between single-channel and multi-channel systems. (8)

IX. Describe the PHY layer and MAC Layer of IEEE 802.11. (8)

x-x-x