

2053

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. Answer the following:-

- a) How mobile radio communication is done?
- b) Discuss basic cellular systems.
- c) Explain common channel signaling.
- d) Discuss IEEE 802.11.

(4x2)

UNIT - I

- II. What do you mean by wireless communication system? Compare and contrast paging systems and cordless telephone systems. (8)
- III. What are mobile wireless communication systems? Differentiate 2G and 3G cellular networks. (8)

UNIT - II

- IV. Define the basic cellular system. Discuss cell splitting in brief. (8)
- V. Explain multiple access techniques for wireless communication systems in detail. (8)

UNIT - III

- VI. What do you mean by wireless data services? Differentiate between wireless and fixed telephone networks. (8)
- VII. How traffic routing is done in wireless networks? Discuss packet and frame formats in IS-95. (8)

UNIT - IV

- VIII. Define wireless home networking 802.11 and also discuss MAC layer wireless ATM. (8)
- IX. Compare and contrast orthogonal single vs multi channel systems. (8)

x-x-x