

Exam Code: 1312

Sub. Code: 9241

2071

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) Explain paging systems.
- b) Discuss different types of Multiple accesses in wireless networks.
- c) Explain short messaging service in GPRS.
- d) Discuss MAC layer wireless ATM. (4x2)

**UNIT - I**

II. Discuss about the complete evolution of mobile radio communications. (8)

III. Compare and contrast 2G and 3G cellular networks. (8)

**UNIT - II**

IV. What are various techniques possible to improve coverage and capacity in cellular? Discuss cell splitting in brief. (8)

V. What is handoff in cellular system? Discuss various handoff strategies. (8)

**UNIT - III**

VI. Explain the development of wireless networks. Differentiate between wireless and fixed telephone network. (8)

VII. Explain forward and reverse channel in W-CDMA and CDMA 2000. (8)

**UNIT - IV**

VIII. Explain the evolution of WAN industry. What is wireless home networking 802.11. (8)

IX. Define orthogonal frequency division multiplexing with the help of OFDM block diagram. (8)

*x-x-x*