Roll No. ....

Total Pages : 02

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ADVANCED COMPUTER NETWROKS
IT-415N (E-1)

Time : Three Hours]   [Maximum Marks : 75

Note : All questions are compulsory. Attempt *Five* questions in all, selecting at least *one* question from each Section.

Section A

1. (a) Write a detailed note on seven layer architecture of a network.   7.5

    (b) Explain and differentiate between LAN's, MAN's and wireless network.   7.5

2. (a) Discuss TCP/IP suite of protocols.   7.5

    (b) Explain any *one* :   7.5
      (i) FDDI   (ii) DQDB.

Section B

3. (a) Describe fast access technologies in detail.   7.5

    (b) Compare and explain unicast and multicast addresses.   7.5

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4. Explain architecture of IPV6 and its address format. How is it different from IPV4 ?   15

Section C

5. (a) Define Mobile IP. Explain security issues in Mobile IP. http://www.kuonline.in   7.5

    (b) What do you mean by (any *one*) :   7.5
      (i) Multicasting
      (ii) Multicast protocols.

6. Explain the following :   15
      (i) Secure HTTP
      (ii) Digital Signatures
      (iii) SSL.

Section D

7. (a) Write short note on GPRS and VOIP services. 7.5

    (b) Discuss wireless application protocols.   7.5

8. (a) What do you mean by DVMRP ? How is it different from IGMP and PIM. ?   7.5

    (b) Discuss issues in the management of large network.   7.5