Roll No. ....

Total Pages : 2

BT-8/D-17   **38024**

ADVANCE COMPUTER NETWORK & APPLICATIONS
Paper : IT-456

Time : Three Hours]   [Maximum Marks : 100

Note : Attempt *five* questions in all, selecting at least *one* question from each unit. All questions carry equal marks.

UNIT–I

1. What is Computer network? What are the different layers in TCP/IP model? Discuss in brief the functionalities of different layers in it.

2. (a) What is DQDB MAC algorithm? Discuss.

   (b) What is IEEE 802.11 standard? What are the hardware requirements for it? Discuss.

UNIT–II

3. Write a note on ADSL technology and also discuss the problems in its installation in the old existing telephone services.

4. (a) Discuss the features of IPv6 which were not present in IPv4.

   (b) Discuss the packet format of IPv6 in detail.

UNIT–III

5. (a) What do you understand by Secure Network Programming? Explain.

   (b) Discuss the packet format in IP ESP.

6. (a) What do you understand by IP multi-cast? Explain the Distance Vector Multi-cast Routing Protocol.

   (b) What do you understand by digital certificate? Explain.

UNIT–IV

7. (a) What is CMIP? How is it different from SNMP? Discuss.

   (b) What are the common security threats in Wireless LAN? Discuss.

8. (a) What is Distance Vector Multi-cast Routing Protocol (DVMRP)? What are its limitations? Discuss.

   (b) What is PIM? What are the different variants of it? Discuss.

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