HILTRON

BCA-10
Bachelor of Computer Applications
Fourth Examination 2013
BCA-406
NETWORKING & COMMUNICATION

Time: 3 Hours   **Max. Marks: 60**
Note: The question paper is divided into three sections A, B and C. Answer as per the instructions given in each section.

Section –'A'

Note: Attempt any two questions. All questions carry equal marks.   **15*2=30**

Q.1 What is OSI model? Explain each layer of OSI reference model in detail.

Q.2 What is network security? Define its policy of implementation.

Q.3 What are the different transmission media available? Explain why Optical Fiber is Preferred?

Q.4 What is Computer Network? Explain the use of Computer networks.

Section –'B'

Note: Attempt any four questions. All questions carry equal marks.   **4x5=20**

Q.1 What is CSMA/CD protocol? Explain in detail.

Q.2 Explain the working concept of a network interface card.

Q.3 Explain TCP/IP model in detail.

Q.4 What is client-server? List various types of servers used in networking and explain at least one in brief.

Q.5 What is network Operating System? Explain it with the help of example.

Q.6 What is bandwidth. Explain the difference between base band and Broadband.

Q.7 Explain what hardware would be required to develop a network of 10 workstations.

Q.8 Explain the following terms:

     a. ISDN
     b. Switch

Section –'C'

Note: Attempt all questions. All questions carry equal marks.

(10*1=10)

Note: Choose the correct alternative

1. Privately owned networks within a single building or campus of upto a few kilometres in size.
    a. LAN
    b. WAN
    c. MAN
    d. None of these

2. MAN refers to-
    a. Mega area network
    b. Metropolitan area network
    c. Mini area network
    d. Medium area network

3. A network, spans a large geographical area, often a country or continent-
    a. LAN
    b. WAN
    c. MAN
    d. None of these

4. Collection of interconnected networks sometimes called-
    a. Internet
    b. Wireless network
    c. Mobile network
    d. None of these

5. Which layer is not present in TCP/IP model?
    a. Internet layer
    b. Application layer
    c. Session layer
    d. Transport layer

6. Copper wire is an example of-

    a. Guided transmission media
    b. Unguided transmission media
    c. Group media
    d. None of these

7. Which of the following layers is not in OSI model?

    a. Physical layer
    b. Internet layer
    c. Network layer
    d. Transport layer

8. Layer 7 of the ISO OSI networking model is known as the ___ layer.

    a. physical
    b. presentation
    c. application
    d. network

9. ARP stands for:

    a. American Resolution Protocol
    b. Address Resolution Protocol
    c. Advantage Resolution Practice
    d. Acquired Resolution Protocol

10. HTTP refers to-
    a. Hyper Text Transmission Protocol
    b. Hyper Text Transfer Protocol
    c. Hyper Text Tie protocol
    d. None Of These