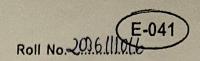# NETWORK TECHNOLOGY AND MANAGEMENT

2K7-DS-02

Time : 03 hrs.]   [M.M : 100

> Note :—
> 1. Part 'A' may be attempted in first 6 pages of Answer Sheet.
>   भाग 'क' के सभी उत्तर, उत्तर-पुस्तिका के प्रथम छः पृष्ठों में ही करने हैं।
> 2. Part 'B' in rest of the Sheets of Answer Sheet.
>   भाग 'ख' के उत्तर, उत्तर-पुस्तिका के अगले शेष पृष्ठों में लिखिये।
> 3. Answers may be given in English or Hindi.
>   प्रश्नों के उत्तर अंग्रेजी अथवा हिन्दी में दीजिये।

PART – 'A'

1.   **Attempt any ten questions :**   (10x2=20)

    (1)   What is a computer network ?

    (2)   What do you mean by Node ?

    (3)   What is Network Topology ?

    (4)   Define Static IP.

    (5)   What is arithmetic coding ?

    (6)   What is Entropy ?

    (7)   What is the advantage of Data Compression ?

    (8)   What does ISP stand for ?

    (9)   What is transmission media in network ?

    (10) What is bus topology ?

    (11) What is a protocol ?

    (12) What is peer to peer processing ?

    (13) PAN stands for .... and CAN stands for ....

    (14) What is a bridge ?

2. **Attempt any five questions :**
(5x4=20)

(1) Differentiate between packet and message in terms of computer network. Differentiate between circuit and packet switching.

(2) What is the difference between the Internet, Intranet and Extranet ?

(3) What is the use of encryption and decryption ?

(4) What are the methods for network monitoring ? Why it is necessary ?

(5) Distinguish between a switch and a router ?

(6) How linking is done to a remote office ?

(7) Explain Company Network and linking to remote offices.

PART – 'B'

Attempt any three questions :

(3x20=60)

3. (a) How can a network be certified as an effective network ? What are the factors affecting them ?

(b) Explain storage management in detail.

4. Explain Huffman coding using suitable example. Compare it with Ziv-lemple coding.

5. (a) What do you understand from Work load Management ? How and why it is done ?

(b) What do you understand from Monitoring the network. What are the various tools used for it.

6. (a) What is a distributed database ? What are its benefits ? Explain Distributed Operating System.

7. (a) Explain various aspects of security in network management.

(b) Explain Network topologies with diagram.