LTS

# Networking Fundamental

E-32

2K7-CS-02

Roll No .: 1812111027

M.M. 100

Time: 3 Hrs.

#### Note:

- Part 'A' may be attempted in first 5 pages of Answer Sheet. भाग 'क' के सभी उत्तर, उत्तर-पुस्तिका के प्रथम पांच पृष्ठों में ही करने हैं।
- Part 'B' in rest of the Sheets of Answer Sheet. 2 भाग 'ख' के उत्तर, उत्तर-पुस्तिका के अगले शेष पृष्ठों में लिखिये।
- Answers may be given in English or Hindi. प्रश्नों के जत्तर आंग्रेजी अथवा हिन्दी में दीजिये।

### Part 'A'

## Attempt any ten questions:

10x2 = 20

- What is meant by time domain in data transmission?
- What is digital data transmission? (1)
- What is thermal noise in data transmission? (11))
- What is bandwidth? (iv)
- Draw structure of Coaxial cable gıneer (v)/ (vi) Explain modulation.
- (vii) Explain packets in data transmission.
- (viii) What are parity bits?
- Explain line of slight in communication (ix)
- (x) Define baud rate.
- (xi) What is TDM?
- (xij) What is half duplex communication?
- (xiii) Explain Uncast.

## Attempt any 5 of the following questions:

 $5 \times 4 = 20$ 

- Explain FDM in detail. (1)
- Distinguish between synchronous and asynchronous data transmission.
- Explain types of errors incurred during data communication.
- (by What is OSI? Explain.

(vi) Explain circuit switching.
(vii) What is frame delay? How is it calculated?
(vii) What is serial and parallel transmission?

PART-B

Attempt any 3 of the following questions:

# Distinguish between ASK, FSK and PSK.

- 4. What are various scrambling techniques?
- 5. Explain data correction codes in detail using example.
- Compare satellite and terrestrial microwave links.

Explain various IEEE 802 standards in detail.