

BSc. (NEP) Sem.2 Examination**Electronics****Major DSC-C-ELE- 121T
History of Indian Satellite Network****Time : 2-00 Hours]****[Max. Marks : 50**

Instruction : (1) All questions carry equal marks.

(2) Symbol used their usual meaning.

1. Draw the INSAT Frequency plan and explain INSAT in detail. **10**

OR

1. Explain about satellite system. Also discuss the use of satellite system in the field of Television.

2. Explain about Ideal constant voltage source of Ideal constant Current source. **10**

OR

2. State & explain Kirchhoff's voltage law in detail. Also discuss maximum power transfer theorem.

3. Draw the symbol of Tunnel diode & explain it's construction. Also Discuss it's V/A Characteristics & applications. **10**

OR

3. Explain about PIN diode & varacter diode in detail

4. Draw the truth table & obtain simplified K-Map for given condition. **10**

$$\underline{Y} = F(A, B, C, D) = \sum m (7,9,10,11,12,13,14,15)$$

OR

4. Write notes on (1) Multiplexer (2) ROM

5. Attempt any 10 out of 12 **10**

- 1) Give the full form of LNA
- 2) Give the full form of HPA
- 3) Give the full form of TDMA
- 4) An ideal constant voltage source has _____ resistance.
- 5) Kirchhoff's laws are true for all electronic circuit (True or False).
- 6) The superposition theorem is essentially based on the concept of _____
- 7) Draw the symbol of Zener diode.
- 8) Draw the symbol of LED.
- 9) Discuss two uses of Zener diode
- 10) What is rolling in K-map ?
- 11) Name two type of 7 segment decoder
- 12) In K-Map what is meaning of "x"
