

3. Discuss general link design equation and atmospheric and ionospheric effects on link design. 15

SECTION – B

4. Discuss S/N & C/N ratio in frequency modulation in Satellite link. 15
5. Explain modulator and demodulator ckt for MSK. 15

SECTION – C

6. Explain SPADE system. 15
7. Discuss mechanism of launching a satellite. 15

SECTION – D

8. Discuss the following : 15
- (a) INMARSAT
 - (b) VSAT
9. (a) Explain optical satellite link receiver. 8
- (b) Discuss satellite tracking & positioning. 7

Roll No.

3722

**B. Tech. 8th Sem. (Electronics & Tele
Communication Engineering)
Examination – May, 2023**

SATELLITE COMMUNICATION

Paper : PCC-ECE-403-G

Time : Three hours]

[Maximum Marks : 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Question No. 1 is compulsory. Attempt any one question from each Section. All questions carry equal marks.

1. (a) Give advantages of Satellite Communication. 4
- (b) What are elements of digital Satellite Communication System ? 4
- (c) What is Look's angle ? 3
- (d) Compare Satellite Communication with Optical Communication. 4

SECTION – A

2. Discuss block diagram of Earth Station. 15