

Roll No.

24441

B. Tech 7th Semester (ECE)

Examination – May, 2018

SATELLITE COMMUNICATION ENGINEERING

Paper : ECE-403-F

Time : Three Hours]

[Maximum Marks : 100

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 *five* questions in all, selecting *one* question from each Section. All questions carry equal marks.

1. Explain the following terms : 20

(a) G/T ratio

(b) FDM

(c) TDMA

(d) VSAT

SECTION - A

2. (a) Explain evolution and growth of communication satellite. 10
(b) Describe various Applications of Satellite Communication. 10
3. (a) Explain complete link design in detail. 10
(b) Explain Earth Station parameters. 10

SECTION - B

4. (a) What is SCPC Systems. Explain. 10
(b) What is CSSB Systems. Explain. 10
5. (a) Describe Advantages of digital communication. 10
(b) What are the elements of digital satellite communication? 10

SECTION - C

6. (a) What is TDMA-Burst structure? Explain. 10
(b) Compare TDMA and FDMA. 10

7. (a) Describe satellite placement in geostationary orbit. 10
- (b) Explain various orbital parameters. 10

SECTION - D

8. Explain various terms :
- (a) BDS 10
- (b) MSAT 10
9. Describe LASER Satellite communication system in detail. 20
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