

SECTION - A

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

- 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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