

24441

**B.Tech. 7th Semester (F) Scheme (ECE) Examination,
December-2018**

SATELLITE COMMUNICATION

Paper-ECE-403-F

Time allowed : 3 hours]

[Maximum marks : 100

Note : Question no. 1 is compulsory and attempt any one question from each section.

1. Explain the following terms : 20
- (a) C/N ratio
 - (b) TDM
 - (c) CDMA
 - (d) MSAT

Section-A

2. (a) Compare Active and Passive Satellite. 10
(b) Describe advantages of satellite communication. 10
3. (a) Describe General Link design equations. 10
(b) Explain Atmospheric & Ionospheric effects on link design. 10

Section-B

4. Describe various digital modulation techniques. 20

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5. (a) Explain FDM TV Satellite link. 10
(b) Discuss Energy disposal in FM system. 10

Section-C

6. (a) What is Beam Hopping ? Explain. 10
(b) What is TDMA-burst structure ? 10
7. (a) Describe various orbital parameters. 10
(b) What is synchronous orbit ? Explain. 10

Section-D

8. (a) Explain Satellite communication with respect to
Fiber optic communication. 10
(b) What is tracking & positioning ? 10
9. Explain the following terms: 20
(a) VSAT
(b) LEDs