

**B. Tech. Sem -VIII (E & TC Engg.) (2014 COURSE) (CBCS) :
WINTER - 2018**

SUBJECT: SATELLITE COMMUNICATION

Day : Wednesday
Date : 14/11/2018

W-2018-2679

Time : 02.30 PM TO 05.30 PM
Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to right indicate **FULL** marks.
- 3) Draw neat and labeled diagram **WHEREVER** necessary.
- 4) Assume suitable data, if necessary.

Q.1 a) What are keplers three laws of planetary motion? (05)
b) Explain the satellite orbital mechanics? (05)

OR

Q.1 What is orbital effect in communication system? (10)

Q.2 a) Explain attitude and Orbit control system for satellite? (05)
b) W.S.N.O. --TTMC (05)

OR

Q.2 Derive expiration for Pt received by antenna satellite? (10)

Q.3 a) Explain design of link for specified C/N in uplink and downlink attention? (05)
b) Explain Orbital element? (05)

OR

Q.3 Design process of basic transmission theory? (10)

Q.4 a) Explain window origination? (05)
b) Explain frame origination? (05)

OR

Q. 4 What is mean by one way Two way implementation? (10)

Q.5 a) What is mean by geostationary satellite? (05)
b) Describe satellite orbit? (05)

OR

Q.5 Explain NGSO design? (10)

Q.6 a) Explain the working DBS-TV receiver? GPS position location principles? (05)
b) WSNO- satellite radio broadcasting? (05)

OR

Q.6 GPS position location principles? How position in GPS is done? (10)

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