B. Tech - sem - VIII, (2014 course), E&TC
winter-2018

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

SUBJECT: SATELLITE COMMUNICATION

W-2018-2679

Day : Wednesday
Date : 14/11/2018

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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