

COURSE CODE(CREDITS): 18B1WEC845(3)

MAX. MARKS: 25

COURSE NAME: Satellite Communication

COURSE INSTRUCTORS: SRU

MAX. TIME: 1 Hour 30 Min

Note: (a) All questions are compulsory. (b) The candidate is allowed to make suitable numeric assumptions wherever required for solving problems. (c) Scientific Calculator is allowed.

Q.No	Question	CO	Marks
Q.1	Differentiate between Geo-synchronous orbit, Medium Earth Orbits and Polar Orbit and Sun Synchronous orbits. Specify the application of each orbit along with the time delay in communication.	CO-1	5
Q.2	State Kepler's three laws and explain with neat diagrams.	CO-2	5
Q.3	What is the principle Liquid Propulsion System? Explain the specific technologies under the category of Electric and ion propulsion.	CO-2	5
Q.4	What is the function of Telemetry Tracking and Command (TT&C)?	CO-3	5
Q.5	What are the various elements used in the space segments of a satellite system? Explain the need and function of each element in the satellite system.	CO-3	5