

Code: 9A04803

B.Tech IV Year II Semester (R09) Regular & Supplementary Examinations May/June 2014

SATELLITE COMMUNICATIONS
(Electronics & Communication Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Explain various reasons for preferring satellite communication over optical fiber communication.
(b) Discuss the future trends and advanced concepts relating to the satellite communication.
- 2 What are the orbital effects in satellite communication?
- 3 Write in detail about:
(a) Altitude system.
(b) Orbit control system.
- 4 (a) Discuss about noise figure.
(b) Write a short note on G/T ratio for earth station.
- 5 (a) Explain demand access multiple access (DAMA).
(b) Explain TDMA frame structure.
- 6 (a) How to select earth station? Explain.
(b) What do you mean by tracking and pointing?
- 7 (a) Write short notes on antenna used for satellite communication.
(b) Write short notes on delay and throughput consideration.
- 8 Explain about:
(a) GPS receiver.
(b) GPS codes.
