

End Semester Examinations - 2015-16 Even Semester - May 2016

14EC2050 Basics of Satellite Communication

Set B

Time : 3 hrs
Total Marks: 100

1. List the different types of orbits used in satellite communication. Also explain its specification and its characteristics (20 marks)
 - OR**
 2.
 - a) With a necessary diagram and equation explain in detail about Range, Azimuth, elevation angles to satellite (8 marks)
 - b) Explain in detail about frequency band designation, services in satellite communication (12 marks)
 3. With a neat diagram explain the different antennas used in satellite communication (20 marks)
 - OR**
 4. Draw the necessary diagram and Explain in detail about physical structure of satellite bus (20 marks)
 5.
 - a) Discuss in detail about the factors of transmission impairment in satellite communication. (16 marks)
 - b) Derive the basic link equation for received power (4 marks)
 - OR**
 6. write a note on RF propagation mechanism and the characteristics of wave above 3GHz and below 3 GHz (20 marks)
 7. Discuss in detail about data encryption and decryption technique in satellite communication (20 marks).
 - OR**
 8. With a neat diagram explain about klystron crossfield devices (20 marks)
 9. Discuss in detail about the operation and specifications of Direct to home system with necessary diagrams (20 marks)
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Wishing you All the Best
