



## ASSIGNMENT 1

### PART A

1. Define coherence bandwidth
2. What is Doppler spread?
3. Write the conditions for flat fading.
4. What is meant by link budget?
5. Differentiate Fast fading & slow fading.
6. What is the need of path loss models in link budget design?
7. Differentiate Flat fading & Frequency selective fading.
8. What are the different fading effects due to Doppler spread?

### PART B

1. Discuss in brief about the Free-space and Two-Ray models.
2. What is link budget? Write short note on link budget calculation.
3. Explain in detail about the parameters of mobile multipath channels.
4. What is fading? Explain the types of fading.