ASSIGNMENT IV

PART A

1. **What is the need of equalization?**
2. **Define adaptive equalizer.**
3. **State the principle of diversity**
4. **Write a short note on i) linear equalizers   ii) non-linear equalizers**
5. **Write the advantages of LMS algorithm.**
6. **Write the functions of diversity.**
7. **Differentiate between Macrodiversity and Microdiversity.**
8. **List out the four types of Combining Methods.**

PART B

1. **Briefly explain about linear equalizers.**
2. **With a neat block diagram (i) explain the principle of Macrodiversity**

   (ii)Explain the operation of an adaptive equalizer at the receiver side
3. **Explain LMS algorithm in detail.**
4. **Discuss the performance of a RAKE receiver with a neat diagram.**