1. Draw the structure of Eye diagram?
2. Compare a correlator and a matched filter?
3. State Different types of pulse analog modulation techniques?
4. Write a short notes on channel capacity?
5. Draw the power spectrum of PAM signal?
6. Draw the block diagram of ISI?
7. State the significance of Matched Filter?
8. Draw the power spectrum of PAM signal?
9. Draw the raised cosine spectrum of ISI?
10. Explain the properties of the matched filter?
11. Describe the process of error performance degradation in ISI?
12. Derive the expression for nullify the ISI in baseband transmission?
13. Determine the probability of error for a Maximum Likelihood receiver structure through advanced calculations, showcasing a comprehensive understanding of the receiver's design and its impact on error probability?
14. Explain the process of equalization?
15. Determine the probability of error for an optimal receiver by employing mathematical calculations and demonstrating a comprehensive understanding of the receiver's characteristics?
16. Draw and explain the importance of eye pattern in the communication system?
17. Define the ISI and explain the procedure to nullify the ISI?
18. Determine the probability of error for a Matched Filter through rigorous calculations and
19. understanding of the underlying principles?
20. Derive the expression for the correlation realization of the matched filter?
21. Explain the properties of the matched filter?
22. Examine the process of equalization with the aim of minimizing Inter-Symbol Interference (ISI)?
23. Explain the concept of Information theory with an example?
24. Execute the probability of error for an optimum receiver through mathematical calculations and
25. analysis?