**Question bank**

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| 1. What is a communication system and write their types? |
| 1. Comparison of AM and DSB-SC |
| 1. Construct a relationship between FM and PM .Give expression for the same. |
| 1. List all the three receiver characteristics. explain any one of them |
| 1. Design a neat diagram for under sampling oversampling and perfect sampling signal. Explain aliasing and how to overcome this effect. |
| 1. What is multiplexing explain with neat diagram? |
| 1. Define Electromagnetic frequency spectrum with diagram |
| 1. What is a type of Amplitude modulation |
| 1. How will you classify the modulation technique. |
| 1. List the classification of radio receiver |
| 1. State the sampling theorem |
| 1. Discuss the feature of Delta modulation technique. |
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| 1. Explain in detail noise in the communication system. |
| 1. Draw and explain the frequency spectrum of AM Wave. |
| 1. What is linear and non-linear modulation? |
| 1. What do you mean by double spotting? Give Example and explain.? |
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| 1. List the two types of quantization processes explain with neat diagram |
| 1. Compare the two types of multiplexing technique. According to your opinion which one is good for communication purposes. |
| 1. Draw the block diagram of basic communication system and explain in detail. |
| 1. Explain Amplitude modulation with their mathematical equation |
| 1. What is the meaning of frequency deviation described with a suitable diagram? |
| 1. What will be the effect of feedback on performance of  AM |
| 1. Compare the different modulation technique.PAM PWM PPM |
| 1. Discuss the slope overload distortion and granular noise distortion technique .With neat diagram |
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| 1. Explain elements of communication systems? |
| 38. A carrier wave of frequency f = 1mHz with a pack voltage of 20V is used to modulate a signal of frequency 1kHz with a pack voltage of 10v. Find out the following:  (i) μ  (ii) Frequencies of the modulated wave  (iii) Bandwidth |
| 1. Identify the drawbacks of direct frequency generation method, explain how to improve them in indirect frequency modulation. |
| 1. Discuss the phenomenon of Image rejection ratio. |
| 1. Explain the definition, block diagram, concept of PPM, advantages, disadvantages and application of PPM . |
| 1. Describe the different types of Amplitude Modulation (AM) techniques, and compare their advantages and disadvantages. |
| 1. Explain Principles of Amplitude Modulation & types of Amplitude modulation |
| 1. Explain what is Varactor diode method .write its concept ,circuit description ,working, with neat diagram. |
| 1. Recall the concept of TRF receiver  and explain Advantages Disadvantaged and Application of TRF receiver |
| 1. Classify the type of modulation .Explain  PAM modulation technique its advantaged and  application . |
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