

## **Analog Communication Viva Questions :-**

**Analog Communication** is a data transmitting technique in which information signal is transmitted in analog nature. This always utilizes continuous signals to transmit data which may obtained from audio, image, video etc. An Analog signal is a variable signal continuous in both time and amplitude. To produce modulated signal inside the transmitter in Analog Communication, analog signal modulates the high carrier frequency. Than this modulated signal is transmitted with the help of antenna. All AM, FM audio transmission and T.V. transmission are the most preferable examples of analog communication. Analog communication is very important topic for the students preparing for GATE Exam(Electronics) Following questions will help to learn the basics concepts of analog communication.

### **1. Define Pam And Write Down Its Drawbacks?**

Pulse Amplitude Modulation is the process by which the amplitude of the regularly spaced pulses varies according to the the amplitude of the modulating signal.

The drawbacks are:

- Since the amplitude of the pulses varies therefore the peak power of the modulating s/g is much greater.
- The bandwidth required for transmitting is greater since the amplitude varies.

### **2. How Can Be Aliasing Be Avoided?**

Aliasing can be avoided if:

1. Sampling frequency must be greater than the frequency of the modulating signal.
2. The frequency should be band limited to maximum frequency of the signal(fm) Htz.
3. If prealias filter is used.



# Analog Electronics Lab Viva Questions With Answers

**Marc E. Herniter**



## **Analog Electronics Lab Viva Questions With Answers:**

*ELECTRONICS LAB MANUAL (VOLUME 2)* NAVAS, K. A.,2018-10-01 This book is evolved from the experience of the author who taught all lab courses in his three decades of teaching in various universities in India The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories This book covers 118 experiments for linear analog integrated circuits lab communication engineering lab power electronics lab microwave lab and optical communication lab The experiments described in this book enable the students to learn Various analog integrated circuits and their functions Analog and digital communication techniques Power electronics circuits and their functions Microwave equipment and components Optical communication devices This book is intended for the B Tech students of Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics It is designed not only for engineering students but can also be used by BSc MSc Physics and Diploma students **KEY FEATURES** Contains aim components and equipment required theory circuit diagram pin outs of active devices design tables graphs alternate circuits and troubleshooting techniques for each experiment Includes viva voce and examination questions with their answers Provides exposure on various devices **TARGET AUDIENCE** B Tech Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics BSc MSc Physics Diploma Engineering Canadian Books in Print ,2000 ELECTRONICS LAB MANUAL Volume I, FIFTH EDITION NAVAS, K. A.,2015-09-11 This lab manual is intended to support the students of undergraduate engineering in the related fields of electronics engineering for practicing laboratory experiments It will also be useful to the undergraduate students of electrical science branches of engineering and applied science This book begins with an introduction to the electronic components and equipment and the experiments for electronics workshop Further it covers experiments for basic electronics lab electronic circuits lab and digital electronics lab A separate chapter is devoted to the simulation of electronics experiments using PSpice Each experiment has aim components and equipment required theory circuit diagram tables graphs alternate circuits answered questions and troubleshooting techniques Answered viva voce questions and solved examination questions given at the end of each experiment will be very helpful for the students The purpose of the experiments described here is to acquaint the students with Analog and digital devices Design of circuits Instruments and procedures for electronic test and measurement *Worked Examples in Analog Electronics* Peter H. Mowe,1995 Analog Electronics Ian Hickman,1999-06-10 Analog Electronics is a vital book for all electronics designers to have to hand it will answer nagging questions about core analog theory and design principles as well as offering practical design ideas The second edition of this popular text has been enhanced with concise design implementations with many of the circuits taken from Ian Hickman s magazine articles Although not a traditional textbook Analog Electronics is also an ideal course text for

students at HNC HND and degree level The contents have been carefully matched to provide full coverage of the appropriate units in the new BTEC Higher National Engineering scheme from Edexcel Ian Hickman is looked to by thousands of circuit designers for his innovative design ideas and clear explanations of the fundamentals of analog circuit design This book is a distillation of Hickman s design insights introducing all the main areas of analog electronics The professional text for analog electronics Includes numerous practical circuit ideas

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world problems in every chapter and shows many examples that are worked out clearly marked and set off from the text  
Topics are covered in an easy to read format and explanations are lucid     Analog Electronics Ian Hickman, 2013-10-02  
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emphasis on how analog circuits work The opening chapters consider the passive and active components of analog circuits  
The succeeding chapters deal with the amplification of audio frequency electrical signals and their transformation into sound  
waves as well as the passive signal processing and transmission The discussion then shifts to the active signal processing in  
frequency and time domain Other chapters examine the mechanism of radio frequency circuits signal sources and power  
supplies The closing chapter tackles the commercial and professional application of electronics This book will prove useful to  
engineers technicians and students     **Experiments in Analog and Digital Electronics** Thomas E. Brewer, 2004-07-09

**Cool Circuits** Marc E. Herniter, 2006 This book attempts to answer the questions Why are we doing this and What is this  
used for when applied to analog electronics Since most people do not see where or how analog electronics fit into their lives  
this book discusses several demonstrations and design examples with the express purpose of showing some of the cool things  
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