# TYPICAL QUESTIONS & ANSWERS

### PART - I

### OBJECTIVE TYPE QUESTIONS

Each Question carries 2 marks.

Choose correct or the best alternative in the following:

- Q.1 The breakdown mechanism in a lightly doped p-n junction under reverse biased condition is called
  - (A) avalanche breakdown,
  - (B) zener breakdown.
  - (C) breakdown by tunnelling.
  - (D) high voltage breakdown.

Ams: A

- Q.2 In a CE connected transistor amplifier with voltage gain A<sub>vv</sub> the capacitance C<sub>bc</sub> is amplified by a factor
  - (A) A<sub>v</sub>

(B)  $1 + A_{v}$ 

 $(C)\sqrt{1+A_{v}}$ 

(D)  $A_{x}^{2}$ 

Ams: B

- Q.3 For a large values of IVDSI, a FET behaves as
  - (A) Voltage controlled resistor.
  - (B) Current controlled current source.
  - (C) Voltage controlled current source.
  - (D) Current controlled resistor.

Ans: C

- Q.4 Removing bypass capacitor across the emitter-leg resistor in a CE amplifier causes
  - (A) increase in current gain.
- (B) decrease in current gain.
- (C) increase in voltage gain.
- (D)decrease in voltage gain.

Ams: D

- Q.5 For an op-amp having differential gain A, and common-mode gain A, the CMRR is given by
  - (A)  $A_v + A_c$

(B) Ay/Ac

(C)  $\frac{A_v}{A_c} + 1$ 

(D) Ac/Av

Ams: B

# **Analog Communications Objective Type Questions With Answers**

Jain, M.C.

## **Analog Communications Objective Type Questions With Answers:**

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provide description on analog amplitude modulation single sideband modulation analog angle modulation pulse modulation digital transmission of analog signals and multiplexing Finally it discusses about noise random signal and processes information theory and coding and communication detectors and filters. The background of each topic in the book is prepared sensibly by providing suitable illustrations numerical examples detailed explanation of each step given thereby making the understanding of complicated derivations easier This well structured book is specifically written for the undergraduate students of electronics and communication engineering and postgraduate students of electronics Communication Rajarshi Mahapatra, 2024-06-13 More figures will bridge the gap between mathematics and visualization of the communication system KEY FEATURES More figures to visualize the communication system Limited mathematics to explain the concept Complete overview of the communication system DESCRIPTION In today s tech driven world communication systems play a crucial role in sharing information effectively The book Analog and Digital Communication helps you grasp the fundamental principles of these systems enabling you to analyze and visualize information flow This book on communication systems teaches you the basics of how information travels It covers key concepts and tools showing how analog information is transmitted on a carrier signal using techniques like AM and FM You will also learn about converting analog signals to digital data and using modulation techniques like ASK and PSK The book explains handling noise in communication and introduces information theory to understand data capacity and noise impact It covers performance metrics like BER and channel coding for error correction Additionally it explores wireless and optical communication technologies like cellular networks Wi Fi and optical fiber communication By the end of this book you will master analyzing digital modulation understanding noise in communication and using error correction methods You will explore modern wireless and optical communication with light pulses gaining skills to navigate the communication world confidently WHAT YOU WILL LEARN Visualize communication techniques Relate the mathematical expressions with communication techniques Find out the importance of different parameters in the performance of the communication system Understand the impact of noise and techniques to overcome it Analyze and design the communication systems WHO THIS BOOK IS FOR This book is suitable for undergraduate ECE students in all universities as well as students of ICT and anyone interested in communication It is ideal for engineering students aspiring communication professionals and curious individuals seeking insights into the technology connecting our world TABLE OF CONTENTS 1 Introduction to Communication 2 Mathematical Basics 3 Communication Channel 4 Analog Modulation Technique 5 Sampling Quantization and Line Coding 6 Digital Modulation Techniques 7 Signal Detection in Presence of Noise 8 Information Theory 9 Performance of Communication System 10 Channel Coding 11 Wireless Communication 12 Optical Communication **400+ Communications Technician** Interview Questions & Answers | Ultimate Interview Prep Guide CloudRoar Consulting Services, 101-01-01 Master your next design interview with this comprehensive guide crafted exclusively for aspiring Interface and Interaction Designers

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