

# Digital Signal Processing

## Chapter 1 : Discrete Time Signals

Q. 1 With the help of block schematic diagram explain basic elements of digital signal processing.

Ans. :

**Basic elements of digital signal processing :**

Fig. 1.1 shows that the basic elements of digital signal processing system.



Fig. 1.1

The different blocks of this system are as follows :

**1. Input signal :**

It is the signal generated from some transducer or from some communication system. It may be biomedical signal like ECG or EEG. Generally input signal is analog in nature. It is denoted by  $x(t)$ .

**2. Anti-aliasing filter :**

Anti aliasing filter is basically a low pass filter. It is used for the following purposes :

- It removes the high frequency noise contain in input signal.
- As the name indicates; it avoids aliasing effect. That means it is used to band limit the signal.

**3. Sample and hold circuit :**

This block takes the samples of input signal. It keeps the voltage level of input signal relatively constant. Sometimes amplifiers are required to bring the voltage level of input signal upto the required voltage level of ADC.

**4. Analog to Digital Converter (ADC) :**

This block is used to convert analog signal into digital form. This is required, because digital signal processor accepts the signal which is digital in nature.

**5. Digital signal processor :**

It processes input signal digitally. In a simple language processing of input signal means modifying the signal as per requirement. For this purpose DSP processors like ADSP 2100 or TMS 320 can be used.

**6. Digital to Analog Converter (DAC) :**

The output of digital signal processor is digital in nature. But the required final output is analog in nature. So to convert digital signal into analog signal DAC is used.

# Signal Processing Interview Questions

**Puja Mehta**

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## **Table of Contents Signal Processing Interview Questions**

1. Understanding the eBook Signal Processing Interview Questions
  - The Rise of Digital Reading Signal Processing Interview Questions
  - Advantages of eBooks Over Traditional Books
2. Identifying Signal Processing Interview Questions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Signal Processing Interview Questions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Signal Processing Interview Questions
  - Personalized Recommendations
  - Signal Processing Interview Questions User Reviews and Ratings
  - Signal Processing Interview Questions and Bestseller Lists
5. Accessing Signal Processing Interview Questions Free and Paid eBooks
  - Signal Processing Interview Questions Public Domain eBooks
  - Signal Processing Interview Questions eBook Subscription Services
  - Signal Processing Interview Questions Budget-Friendly Options

6. Navigating Signal Processing Interview Questions eBook Formats
  - ePub, PDF, MOBI, and More
  - Signal Processing Interview Questions Compatibility with Devices
  - Signal Processing Interview Questions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Signal Processing Interview Questions
  - Highlighting and Note-Taking Signal Processing Interview Questions
  - Interactive Elements Signal Processing Interview Questions
8. Staying Engaged with Signal Processing Interview Questions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Signal Processing Interview Questions
9. Balancing eBooks and Physical Books Signal Processing Interview Questions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Signal Processing Interview Questions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Signal Processing Interview Questions
  - Setting Reading Goals Signal Processing Interview Questions
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Signal Processing Interview Questions
  - Fact-Checking eBook Content of Signal Processing Interview Questions
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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