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Bank. Subject Code

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1. 1. Determine the

energy of the discrete

time sequence (2) $x(n) =$

$(\frac{1}{2})^n, n \geq 0 = 3^n, n < 0$. 2.

Define multi channel

and multi dimensional

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signals (2) 3. Define symmetric and anti symmetric signals. (2) 4. Differentiate recursive and non recursive ...

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SIGNAL

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A& B. UNIT I.

SIGNALS AND

SYSTEMS . Part – A. 1.

What do you understand

by the terms : signal and

signal processing 2.

Determine which of the

following signals are

periodic and compute

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their fundamental period
(AU DEC 07) a) $\sin^2 t$
 $\sin 20 t + \sin 5 t$ 3.
What are energy and
power ...

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RELATED TO DATA
AND ...

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Signal Processing: (i)

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Determine if the signals, $x_1(n)$ and $x_2(n)$ are power, energy or neither energy nor power

signals. $x_1(n) = (1/3)^n u(n)$ and $x_2(n) = e^{4n} u(n)$

(ii) Discuss about quantization effects while digitizing analog signals for processing.

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DIGITAL SIGNAL
PROCESSING UNIT 1
SIGNAL AND
PROCESSING PART A

1. Calculate the
minimum sampling
frequency required for x
 $(t) = 0.5 \sin 50\pi t + 0.25$

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$\sin 25\pi t$, so as to avoid aliasing. 2.

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UNIT-I 2-marks 1.

What is a continuous

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and discrete time signal?

Continuous time signal:

A signal $x(t)$ is said to be continuous if it is defined for all time t .

Continuous time signal arise naturally when a physical waveform such as acoustics wave or light wave is converted into a electrical signal.

Discrete time signal: A discrete time signal is ...

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IT6502 DSP

2marks-16marks,

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EE8591 - Digital Signal

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EE8591: Digital Signal
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Important Question ...

Sample EC6502

Principles of Digital
Signal Processing

question bank: Part A 2

marks. 1. Obtain the
circular convolution of
the following sequences

$x(n) = \{1, 2, 1\}$; $h(n) =$

$\{1, -2, 2\}$ 2. How many

multiplications and

additions are required to

compute N –point DFT

using radix – 2 FFT? 3.

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Define DFT and IDFT?

4. State the advantages of FFT over DFTs? 5.

What is meant by bit reversal? (ec6502 ...

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Some useful formulas: –

N point Discrete Fourier
Transform (DFT) $X[k]$

$= \sum_{n=0}^{N-1} x[n] e^{-j2\pi kn/N}$

– Inverse

Discrete Fourier

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Transform (IDFT) $x[n]$

$$= \frac{1}{N} \sum_{k=0}^{N-1} X[k]$$

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QUESTION BANK

UNIT I PART A 1.

What is Digital Signal Processing? 2.

Distinguish between energy and power signal. 3.

How can we prevent aliasing? 4.

Classify the signals? 5.

What is a multi channel signal? 6.

State analog signal. 7. What are even and odd signals? 8.

What are the types of

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systems? 9. What are
deterministic and
random signals? 10.

What ...

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wise presentation for
systematic and
methodical study •
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Reduced CBSE
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and applications, this
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foundation in the
concepts, methods, and

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algorithms of digital signal processing. Key topics such as spectral analysis, discrete-time systems, the sampling process, and digital filter design are all covered in well-illustrated detail."

"Filled with examples and problems that can be worked in MATLAB or the author's DSP software, D-Filter,

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Processing offers a fully interactive approach to successfully mastering DSP." "Accessible and comprehensive, this resource covers the essentials of DSP theory and practice."--BOOK JACKET.

Mneney's text focuses on basic concepts of digital signal

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processing, MATLAB
simulation, and
implementation on
selected DSP hardware.

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of today's FPGA
technology, devices, and
tools for designing state-
of-the-art DSP systems.
A case study in the first
chapter is the basis for
more than 30 design
examples throughout.

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and a glossary are given in the appendices, while the accompanying CD-ROM contains the examples in VHDL and Verilog code as well as the newest Altera "Baseline" software.

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Altera software, and
some new exercises.

Field Programmable
Gate Arrays (FPGAs)
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revolutionising digital
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FPGA families are
increasingly replacing
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concepts and the theory
and the implementation
of FIR and IIR filters.

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accompanying CD-
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Starting with essential maths, fundamentals of signals and systems, and classical concepts of DSP, this book presents, from an application-oriented perspective, modern concepts and methods of DSP including machine learning for audio acoustics and engineering. Content highlights include but

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are not limited to room acoustic parameter measurements, filter design, codecs, machine learning for audio pattern recognition and machine audition, spatial audio, array technologies and hearing aids. Some research outcomes are fed into book as worked examples. As a research informed text, the book

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attempts to present DSP and machine learning from a new and more relevant angle to acousticians and audio engineers. Some MATLAB® codes or frameworks of algorithms are given as downloads available on the CRC Press website. Suggested exploration and mini project ideas are given for "proof of

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concept" type of exercises and directions for further study and investigation. The book is intended for researchers, professionals, and senior year students in the field of audio acoustics.

Quickly Engages in
Applying Algorithmic

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With its active, hands-

on learning approach,

this text enables readers

to master the underlying

principles of digital

signal processing and its

many applications in

industries such as digital

television, mobile and

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their effect. Moreover, plenty of exercises help to put knowledge into practice solving real-world signal processing challenges. Following an introductory chapter, the text explores:

Sampled signals and digital processing

Random signals

Representing signals and systems
Temporal and spatial signal

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processing Frequency
analysis of signals

Discrete-time filters and
recursive filters Each

chapter begins with
chapter objectives and

an introduction. A

summary at the end of
each chapter ensures

that one has mastered all
the key concepts and

techniques before

progressing in the text.

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listing selected web resources, research papers, and related textbooks enable the investigation of individual topics in greater depth. Upon completion of this text, readers will understand how to apply key algorithmic techniques to address practical signal processing problems as well as

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