

CBCS SCHEME

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17EC52

Fifth Semester B.E. Degree Examination, Dec.2019/Jan.2020
Digital Signal Processing

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1. a. Show that finite duration sequence of length L can be reconstructed from the equidistant N samples of its Fourier transform, where $N \geq L$. (06 Marks)
 b. Compute the 6-point DFT of the sequence $x(n) = \{1, 0, 3, -1, 3, 0\}$. (08 Marks)
 c. Find the N -point DFT of the sequence $x(n) = a^n$, $0 \leq n \leq N-1$. (06 Marks)

OR

2. a. Determine the 6-point sequence $x(n)$ having the DFT $X(K) = \{12, -3 - j\sqrt{3}, 0, 0, 0, -3 + j\sqrt{3}\}$. (06 Marks)
 b. Derive the equation to express z -transform of a finite duration sequence in terms of its N -point DFT. (06 Marks)
 c. Compute the circular convolution of the sequences $x_1(n) = \{1, 2, 2, 1\}$ and $x_2(n) = \{-1, -2, -2, -1\}$. (06 Marks)

Module-2

3. a. State and prove the modulation property (multiplication in time-domain) of DFT. (06 Marks)
 b. The even samples of an eleven-point DFT of a real sequence are : $X(0) = 8$, $X(2) = -2 + j3$, $X(4) = 3 - j5$, $X(6) = 4 + j2$, $X(8) = -5 - j9$ and $X(10) = \sqrt{3} - j2$. Determine the odd samples of the DFT. (06 Marks)
 c. An LTI system has impulse response $h(n) = \{2, 1, -1\}$. Determine the output of the system for the input $x(n) = \{1, 2, 3, 3, 2, 1\}$ using circular convolution method. (08 Marks)

OR

4. a. State and prove circular time reversal property of DFT. (06 Marks)
 b. Determine the number of real multiplications, real additions, and trigonometric functions required to compute the 8-point DFT using direct method. (04 Marks)
 c. Find the output $y(n)$ of a filter whose impulse response is $h(n) = \{1, 2, 1\}$, and the input is $x(n) = \{3, -1, 0, 1, 3, 2, 0, 1, 2, 1\}$ using overlap-add method, taking $N = 6$. (10 Marks)

Module-3

5. a. Compute the 8-point DFT of the sequence $x(n) = \cos(\pi n/4)$, $0 \leq n \leq 7$, using DIT-FFT algorithm. (10 Marks)
 b. Given $x(n) = \{1, 2, 3, 4\}$, compute the DFT sample $X(3)$ using Goestzel algorithm. (06 Marks)
 c. Determine the number of complex multiplications and complex additions required to compute 64-point DFT using radix-2 FFT algorithm. (04 Marks)

Digital Signal Processing Question Paper

**Dr. Surajit Basak, Dr. Kaushik Roy, Dr.
Avali Banerjee**

Digital Signal Processing Question Paper:

Digital Signal Processing C. Ramesh Babu Durai,2005-12 *Digital Signal Processing* Abdaheer,2007-01-01

Digital Signal Processing Muhammad Khan,Syed K. Hasnain,Mohsin Jamil,2022-09-01 The subject of Digital Signal Processing DSP is enormously complex involving many concepts probabilities and signal processing that are woven together in an intricate manner To cope with this scope and complexity many DSP texts are often organized around the numerical examples of a communication system With such organization readers can see through the complexity of DSP they learn about the distinct concepts and protocols in one part of the communication system while seeing the big picture of how all parts fit together From a pedagogical perspective our personal experience has been that such approach indeed works well Based on the authors extensive experience in teaching and research Digital Signal Processing a breadth first approach is written with the reader in mind The book is intended for a course on digital signal processing for seniors and undergraduate students The subject has high popularity in the field of electrical and computer engineering and the authors consider all the needs and tools used in analysis and design of discrete time systems for signal processing Key features of the book include The extensive use of MATLAB based examples to illustrate how to solve signal processing problems The textbook includes a wealth of problems with solutions Worked out examples have been included to explain new and difficult concepts which help to expose the reader to real life signal processing problems The inclusion of FIR and IIR filter design further enrich the contents Digital Signal Processing Emmanuel C. Ifeakor,Barrie W. Jervis,2002 Modern coverage of the fundamentals

implementation and applications of digital signal processing techniques from a practical point of view This successful textbook covers most aspects of DSP found in undergraduate electrical electronic or communications engineering courses Unlike many other texts it also covers a number of DSP techniques which are of particular relevance to industry such as adaptive filtering and multirate processing The emphasis throughout the book is on the practical aspects of DSP **600**

Practical Interview Questions for Digital Signal Processing Engineers: Analyze and Process Signals Efficiently

CloudRoar Consulting Services,2025-08-15

Digital Signal Processing Jonathan M Blackledge,2006-03-01 This book forms the first part of a complete MSc course in an area that is fundamental to the continuing revolution in information technology and communication systems Massively exhaustive authoritative comprehensive and reinforced with software this is an introduction to modern methods in the developing field of Digital Signal Processing DSP The focus is on the design of algorithms and the processing of digital signals in areas of communications and control providing the reader with a comprehensive introduction to the underlying principles and mathematical models Provides an introduction to modern methods in the developing field of Digital Signal Processing DSP Focuses on the design of algorithms and the processing of digital signals in areas of communications and control Provides a comprehensive introduction to the underlying principles and mathematical models of Digital Signal Processing *Digital Signal Processing with Examples in MATLAB* Samuel D.

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Question Bank On Digital Communication Dr. Surajit Basak,Dr. Kaushik Roy,Dr. Avali Banerjee,2025-04-17 This Question Bank on Digital Communication aims to serve as a comprehensive resource for students educators and professionals who seek to understand and excel in the principles technologies and applications of digital communication systems The questions included in this bank cover various aspects of the subject ranging from the fundamental theories of digital communication to advanced topics in modulation techniques error correction coding and signal processing Primary objective of this question bank is to enhance the understanding of key concepts provide ample practice and prepare individuals for examinations and real world applications The questions are categorized into multiple sections allowing users to focus on specific areas of study such as 1 Probability and Random Process 2 Pulse Modulation 3 Signal Vector Representation 4 Data Transmission 5 Digital Modulation Techniques 6 Information Theory 350-801 Practice Questions for CISCO CCNP Collaboration Certification Dormouse Quillsby, NotJustExam 350 801 Practice Questions for CISCO CCNP Collaboration Certification Master the Exam Detailed Explanations Online Discussion Summaries AI Powered Insights Struggling to find quality study materials for the CISCO Certified CCNP Collaboration 350 801 exam Our question bank offers over 440 carefully selected practice questions with detailed explanations insights from online discussions and AI enhanced reasoning to help you master the concepts and ace the certification Say goodbye to inadequate resources and confusing online answers we re here to transform your exam preparation experience Why Choose Our 350 801 Question Bank Have you ever felt that official study materials for the 350 801 exam don t cut it Ever dived into a question bank only to find too few quality questions Perhaps you ve encountered online answers that lack clarity reasoning or proper citations We understand your frustration and our 350 801 certification prep is designed to change that Our 350 801 question

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Digital Signal Processing Lawrence R. Rabiner, Charles M. Rader, 1972 *Digital Signal Processing Using MATLAB & Wavelets* Michael Weeks, 2011 Although Digital Signal Processing DSP has long been considered an electrical engineering topic recent developments have also generated significant interest from the computer science community DSP applications in the consumer market such as bioinformatics the MP3 audio format and MPEG based cable satellite television have fueled a desire to understand this technology outside of hardware circles Designed for upper division engineering and computer science students as well as practicing engineers and scientists *Digital Signal Processing Using MATLAB Wavelets* Second Edition emphasizes the practical applications of signal processing Over 100 MATLAB examples and wavelet techniques provide the latest applications of DSP including image processing games filters transforms networking parallel processing and sound This Second Edition also provides the mathematical processes and techniques needed to ensure an understanding of DSP theory Designed to be incremental in difficulty the book will benefit readers who are unfamiliar with complex mathematical topics or those limited in programming experience Beginning with an introduction to MATLAB programming it moves through filters sinusoids sampling the Fourier transform the z transform and other key topics Two chapters are dedicated to the discussion of wavelets and their applications A CD ROM platform independent accompanies the book and contains source code projects for each chapter and the figures from the book [Index of Conference Proceedings](#) British Library. Document Supply Centre, 1999

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8256 8755 and 8279 *Software Engineering* Sajan Mathew, 2007 This book is a comprehensive step by step guide to software engineering This book provides an introduction to software engineering for students in undergraduate and post graduate programs in computers Applications of Digital Signal Processing to Audio and Acoustics Mark Kahrs, Karlheinz Brandenburg, 2005-12-11 Karlheinz Brandenburg and Mark Kahrs With the advent of multimedia digital signal processing DSP of sound has emerged from the shadow of bandwidth limited speech processing Today the main applications of audio DSP are high quality audio coding and the digital generation and manipulation of music signals They share common research topics including perceptual measurement techniques and analysis synthesis methods Smaller but nonetheless very important topics are hearing aids using signal processing technology and hardware architectures for digital signal processing of audio In all these areas the last decade has seen a significant amount of application oriented research The topics covered here coincide with the topics covered in the biannual workshop on Applications of Signal Processing to Audio and Acoustics This event is sponsored by the IEEE Signal Processing Society Technical Committee on Audio and Electroacoustics and takes place at Mohonk Mountain House in New Paltz New York A short overview of each chapter will illustrate the wide variety of technical material presented in the chapters of this book John Beerends Perceptual Measurement Techniques The advent of perceptual measurement techniques is a byproduct of the advent of digital coding for both speech and high quality audio signals Traditional measurement schemes are bad estimates for the subjective quality after digital coding decoding Listening tests are subject to statistical uncertainties and the basic question of repeatability in a different environment **PGT Music Question Bank Chapterwise - for PGT Teachers** Mocktime Publication, PGT Music Question Bank Chapterwise for PGT Teachers 600 Comprehensive Interview Questions and Answers for Audio Processing Engineer to Master Signal Analysis and Sound Optimization CloudRoar Consulting Services, 2025-08-15 Unlock your full potential in audio processing engineering interviews with 600 Interview Questions Answers for Audio Processing Engineer CEA Certified Audio Engineer SBE from CloudRoar Consulting Services This comprehensive guide stylized after a respected certification delivers an edge in clarity preparation and confidence for technical candidates hiring managers and training teams alike What's inside DSP Fundamentals Advanced Techniques Tackle in depth questions on concepts such as FIR vs IIR filters spectral vs temporal convolution latency optimization time stretching and pitch shifting audio restoration inpainting de reverb source separation speaker diarization and speech enhancement strategies Cloud Based Audio Architectures Explore cloud native audio pipelines scalable DSP frameworks real time processing e.g. AWS Lambda or Azure Functions audio streaming integrations and serverless vs edge processing trade offs Real World Scenarios Behavioral Q A Sharpen your problem solving with situational prompts such as troubleshooting audio feed latency during live events optimizing speech clarity in noisy environments collaborating across remote teams and balancing performance with resource constraints Tools Workflows Hardware Knowledge Strengthen familiarity with industry standard DAWs Pro Tools Ableton Live plugin ecosystems e.g.

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