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Digital Signal Processing  
LAB VIVA Questions :-1.  
Define discrete time and  
digital signal. Discrete  
time signal is continuous in  
amplitude and discrete in  
time, where Digital signal  
is discrete in time and  
amplitude. 2. Explain  
briefly, the various methods  
of representing discrete  
time signal Graphical,  
Tabular, Sequence,

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3.

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Viva Questions and Answers  
on Digital Signal Processing

1. Differentiate between a  
discrete time signal and a  
digital signal. A discrete  
time signal can be defined  
as a signal, which is  
continuous in amplitude and  
discrete in time.

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May 21, 2020 - By Hermann  
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extensive use of matlab  
based examples that  
illustrate the programs  
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Continuous time, continuous  
amplitude (Analog Sig... 26  
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Digital image processing  
Viva Questions and Answers :  
1. Define Image? An image  
may be defined as two  
dimensional light intensity



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1 EXPERIMENT No. 1

Generation of Sinusoidal  
waveform/ Signal based on  
recursive difference  
equations %program to  
generate sinusoidal signals  
with different amplitudes  
title('sine waves');  
t=0:.5:2\*pi; y=sin(t)  
y1=5\*sin(t) y2=10\*sin(t)  
y3=15\*sin(t) subplot(4,2,1);  
plot(y); xlabel('time');

~~EXPERIMENT No. 1~~

Digital signal processing

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filter for a given sequence.

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LAB SYLLABUS Recommended

Systems/Software

Requirements: Intel based  
desktop PC with minimum of  
166 MHZ or faster processor  
with at least 4GB RAM and  
500GB free disk space.

MATLAB and hardware related  
to experiments. C6713 DSK

Code Composer Studio S.No.

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Date Remarks

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## ~~LABORATORY~~ Questions With Answers

### DIGITAL IMAGE PROCESSING

VIVA Questions :-1. Define Image? An image may be defined as two dimensional light intensity function  $f(x, y)$  where  $x$  and  $y$  denote spatial co-ordinate and the amplitude or value of  $f$  at any point  $(x, y)$  is called intensity or gray scale or brightness of the image at that point.

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DIGITAL SIGNAL PROCESSING  
LAB The programs shall be implemented in software (Using MATLAB / Lab view / C programming/ Equivalent) and hardware (Using TI / Analog devices / Motorola / Equivalent DSP processors).

1. Generation of Sinusoidal waveform / signal based on recursive difference equations.
2. To find DFT / IDFT of given DT signal.
- 3.

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## to Digital Signal Answers

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Mersereau. All laboratory  
exercises of the following  
chapters are graphically  
solved in MatLab: Chapter 2  
- Discrete-Time Signals and  
Systems Chapter 3 - The  
Frequency Domain Chapter 4 -  
Sampling

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laboratory manual elucidates  
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help the students carry out  
various experiments in the  
field of digital signal  
processing, digital image



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processing, digital signal processor and digital communication through MATLAB® in a single volume. A step-wise discussion of the programming procedure using MATLAB® has been carried out in this book. The numerous programming examples for each digital signal processing lab, image processing lab, signal processor lab and digital communication lab have also been included. The book begins with an introductory chapter on MATLAB®, which will be very useful for a beginner. The concepts are explained with the aid of screenshots. Then it moves on to discuss the

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fundamental aspects in digital signal processing through MATLAB®, with a special emphasis given to the design of digital filters (FIR and IIR). Finally digital communication and image processing sections in the book help readers to understand the commonly used MATLAB® functions. At the end of this book, some basic experiments using DSP trainer kit have also been included. Audience This book is intended for the undergraduate students of electronics and communication engineering, electronics and instrumentation engineering,

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and instrumentation and control engineering for their laboratory courses in digital signal processing, image processing and digital communication. Key Features

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assumed. Familiarity with multivariate calculus and basic linear algebra is required, and some experience in the use of probabilities would be helpful though not essential as the book includes a self-contained introduction to basic probability theory.

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expands the range and complexity of problems that students can effectively study in the course. Since DSP applications are primarily algorithms implemented on a DSP processor or software, a fair amount of programming is required. Using interactive software such as MATLAB® makes it possible to place more emphasis on learning new and difficult concepts than on programming algorithms. Interesting practical examples are discussed and useful problems are explored. This updated second edition includes new homework problems and revises the

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available functions, and m-  
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engineering, this comprehensive text offers a clear understanding of different types of arithmetic circuits used for digital signal processing applications. The text includes contributions from noted researchers on a wide range of topics, including a review of circuits used in implementing basic operations like additions and multiplications; distributed arithmetic as a technique for the multiplier-less implementation of inner products for DSP applications; discussions on look up table-based techniques and their key applications; CORDIC



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circuits for calculation of trigonometric, hyperbolic and logarithmic functions; real and complex multiplications, division, and square-root; solution of linear systems; eigenvalue estimation; singular value decomposition; QR factorization and many other functions through the use of simple shift-add operations; and much more. This book serves as a comprehensive resource, which describes the arithmetic circuits as fundamental building blocks for state-of-the-art DSP and reviews in - depth the scope of their applications.

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