

Question Bank for Mid Sem 1 Examination Preparation

Q1) Define what do you mean by a digital image with its mathematical representation. Discuss the different stages of digital image processing with its basic architecture.

Q2) Define the meanings of the following terms with respect to digital image processing

- a) Image Filtering b) Image Enhancement c) Image Restoration d) Image Segmentation e) Image compression f) a gray scale image

Q3) List the geometric transformation functions on a digital image and collect at least one library function from your favorite image processing library to do the stated transformations.

Q5) Given the following image $I(x,y)$, Fig 1, Obtain the negative of the image.

205	164	99	67	45
156	120	55	43	123
234	14	12	89	78
23	231	34	129	65
100	91	200	157	57

Fig 1: Image $I(x,y)$

Q6) What is image thresholding? Obtain the threshold of the image $I(x,y)$ in Fig 1, by using a program, if the threshold is 150 and the upper limit is 75. Validate your manually computed values.

Q4) What is image restoration model? Illustrate how the noise filtering helps to restore the image.

Q7) Obtain the results for following filtering instances for the above image at (2,2) position. The filtering instances are

- a) Mean filtering b) Min filtering c) Max filtering d) Median filtering e) Harmonic filtering f) Geometric filtering g) Weighted average filtering (use Laplacian 3x3 kernel for this)

Q8) What is the significance of transforms in general in image processing? Write the 4x4 Kernels for the following transforms and provide your comparative comments for each

- a) Discrete Fourier Transform (DFT) b) Discrete Cosine Transform c) Hadamard Transform
b) Walsh Transform

Q9) Given the vector $f(x) = \{0, 4, 1, 2\}$ obtain the DCT and Hadamard transforms

Q10) What is KL transform? Obtain the KL transform of the image given below

1	0	0	1
0	0	0	0
0	0	0	0
1	0	0	1

Digital Image Processing Examination Questions

SJ Ball



Digital Image Processing Examination Questions:

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vector and matrix concepts is assumed 7th International Conference on Computing, Control and Industrial Engineering (CCIE 2023) Yuriy S. Shmaliy, Anand Nayyar, 2023-07-24 This book collects selected aspects of recent advances and experiences emerging technology trends that have positively impacted our world from operators authorities and associations from CCIE 2022 to help address the world's advanced computing control technology information technology artificial intelligence machine learning deep learning and neural networks Meanwhile the topics included in the proceedings have high research value and present current insights developments and trends in computing control and industrial engineering

IGNOU MCA Previous Years Unsolved Papers All in One Manish Soni, 2024-11-13 It is with great pleasure that we present IGNOU MCA Previous Years Unsolved Papers All in One a comprehensive collection of previous years question papers meticulously curated to support students pursuing a Master of Computer Applications MCA degree from the Indira Gandhi National Open University IGNOU This book is designed to serve as a valuable resource for students preparing for their MCA exams helping them not only to understand the examination pattern but also to enhance their problem solving skills and self assessment abilities The IGNOU MCA program is one of the most reputed distance learning programs in India and it requires students to possess both theoretical knowledge and practical skills across various subjects related to computer science software development and application management Given the vastness of the syllabus and the technical rigor of the program students often seek additional support material to solidify their understanding of key concepts and prepare effectively for the exams This book is intended to fill that gap by providing a comprehensive set of unsolved question papers from previous years In today's competitive academic environment exam preparation is no longer just about understanding the concepts it's about mastering the examination pattern practicing time management and gaining the confidence to face complex questions with ease One of the best ways to achieve this is by going through previous years question papers This book includes question papers from various subjects covered in the MCA curriculum including programming languages algorithms database management systems software engineering data structures computer networks and more By working through these unsolved papers students can Understand the Examination Pattern IGNOU's question papers have a specific structure with questions ranging from multiple choice to short answer and long essay type questions By familiarizing themselves with the pattern students can plan their time effectively during the exam Identify Important Topics Previous question papers are an excellent indicator of frequently asked topics By solving these papers students can focus on key areas that have a higher probability of appearing in the exams Enhance Problem Solving Skills The unsolved papers encourage students to think critically and apply their theoretical knowledge to practical problems This process of self discovery helps in strengthening core concepts and improving analytical skills Practice Time Management One of the biggest challenges in any exam is managing time effectively By solving previous years papers under timed conditions students can practice completing the papers within the given time frame helping them avoid last minute rushes during the actual exams

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Digital Radiography and PACS - E-Book Christi Carter,Beth Veale,2013-09-25 Written with the radiography student in mind Digital Radiography and PACS 2nd Edition provides the latest information on digital imaging systems including computed radiography CR digital radiography DR and picture archiving and communications systems PACS as well as the data required by practicing technologists who are transitioning to digital imaging Coverage of digital imaging and PACS is at just the right level for student radiographers and practicing technologists who are transitioning to digital imaging Chapter outlines learning objectives and key terms at the beginning of each chapter orient readers to the chapter content and assist with organizing study and comprehension Bulleted summaries recap the main points of the chapter ensuring you focus on the most important concepts conveyed by the chapter Review questions at the end of each chapter are linked to the chapter objectives The latest on CR and DR function and image enhancement and processing based on recently published research keeps you current with today s imaging requirements Complete coverage of PACS workstations archiving solutions and system architectures provides a sound basis for understanding how individual systems work Comprehensive quality control and management guidelines for PACS CR and DR prepare you for on the job success Careful alignment with digital imaging information required by the ASRT Core Curriculum ensures you are current with today s procedures and modalities

Basic Knowledge Radiology Martina Kahl-Scholz,Christel Vockelmann,2023-04-19 Clear and compact this textbook provides you with a complete overview of all radiology content relevant to the exam It guides you in an easy to understand and GK oriented manner through the entire basic knowledge from the fundamentals to the most important clinical pictures including nuclear medicine and radiation therapy Benefit from

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Fundamentals of Medical Imaging Paul Suetens, 2017-05-11 This third edition provides a concise and generously illustrated survey of the complete field of medical imaging and image computing explaining the mathematical and physical principles and giving the reader a clear understanding of how images are obtained and interpreted Medical imaging and image computing are rapidly evolving fields and this edition has been updated with the latest developments in the field as well as new images and animations An introductory chapter on digital image processing is followed by chapters on the imaging modalities radiography CT MRI nuclear medicine and ultrasound Each chapter covers the basic physics and interaction with tissue the image reconstruction process image quality aspects modern equipment clinical applications and biological effects and safety issues Subsequent chapters review image computing and visualization for diagnosis and treatment Engineers physicists and clinicians at all levels will find this new edition an invaluable aid in understanding the principles of imaging and their clinical applications

FRCR Physics MCQs in Clinical Radiology Ibrahim Lutfi Shuaib, Hafiz M. Zin, Mohd Zahri Abdul Aziz, Noor Diyana Osman, Rafidah Zainon, 2018-10-13 This book offers a collection of specimen multiple choice questions MCQs for the first FRCR examination in clinical radiology that is for the physics module It includes questions arranged in nine sets of 40 MCQs following the examination format Additionally chapters cover explanation to some of the answers for better understanding of the topics The book covers updated syllabus of Royal College of Radiology RCR UK on scientific basis of medical imaging including topics in molecular imaging Each chapter with a practice set comprises of questions arranged in the order of the syllabus of the examination starting from the basis of medical imaging and radiation physics to the principles of specific modalities and safety issues This book offers assistance to candidates preparing for the first FRCR examination clinical radiology trainees and radiology and nuclear medicine postgraduate students

Computed Tomography - E-Book Euclid Seeram, 2022-06-16 Build the foundation necessary for the practice of CT scanning with Computed Tomography Physical Principles Patient Care Clinical Applications and Quality Control 5th Edition Written to meet the varied requirements of radiography students and practitioners this two color text provides comprehensive coverage of the physical principles of computed tomography and its clinical applications The clear straightforward approach is designed to improve your understanding of sectional anatomic images as they relate to computed tomography and facilitate communication between CT technologists and other medical personnel Chapter outlines and chapter review questions help you focus your study time and master content NEW Three additional chapters reflect the latest industry CT standards in imaging Radiation Awareness and Safety Campaigns in Computed Tomography Patient Care Considerations and Artificial Intelligence An Overview of Applications in Health and Medical Imaging UPDATED More than 509 photos and line drawings visually clarify key concepts UPDATED The latest information keeps you up to date on advances in volume CT scanning CT fluoroscopy and multislice applications like 3 D imaging CT angiography and virtual

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