

Nbt Uct Part Exam Question Papers

Flow Cytometry and Cell Sorting
Drug Design and Discovery
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The Potato Crop
A Solution to the Ecological Inference Problem
Education for Decoloniality and Decolonisation in Africa
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Recommendations on Tourism Statistics
ICT Education

Flow Cytometry and Cell Sorting

This volume looks at key methodologies that are commonly used across antibody drug conjugates (ADCs) programs. The chapters in this book cover topics such as conjugations to endogenous cysteine residues; click chemistry conjugations; antibody conjugations via glycosyl remodeling; analysis of ADCs by native mass spectrometry; characterization of ADCs by capillary electrophoresis; LC/MS methods for studying lysosomal ADC catabolism; and determination of ADC concentration by ligand-binding assays. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and practical, Antibody-Drug Conjugates: Methods and Protocols is a valuable resource that aims to lower the "activation barrier" when undertaking a new discipline, and provides a "toolbox" for the next generation of ADC scientists.

Drug Design and Discovery

Learning and Intelligent Optimization

The Effective Learning and Teaching in Higher Education series is packed with up-to-date advice, guidance and expert

opinion on teaching in the key subjects in higher education today, and is backed up by the authority of the Institute for Learning and Teaching. This book covers all of the key issues surrounding the effective teaching of maths- a key subject in its own right, and one that forms an important part of many other disciplines. The book includes contributions from a wide range of experts in the field, and has a broad and international perspective.

The Potato Crop

This classic book is Marcuse's masterful interpretation of Hegel's philosophy and the influence it has had on European political thought from the French Revolution to the present day. Marcuse brilliantly illuminates the implications of Hegel's ideas with later developments in European thought, particularly with Marxist theory.

A Solution to the Ecological Inference Problem

Still widely used as gene markers, isozymes detected by zymogram techniques have proven valuable in a range of other biological applications over the last few years. Along with these new applications, many new techniques have also emerged. Yet more than eight years since the Handbook of Detection of Enzymes on Electrophoretic Gels was first published

Education for Decoloniality and Decolonisation in Africa

This volume provides methods and approaches to study genetic and environmental regulatory controls on odontogenesis. Chapters guide readers through protocols for isolation and characterization of both epithelial and mesenchymal dental cells, methods on isolation, phenotypic characterization, expansion, differentiation, immunofluorescence, in situ hybridization, immunohistochemistry, imaging protocols, rodent dental fluorosis model, 3D assessment of crown size, dental diseases models, next generation sequencing, genetic and epigenetic studies, genome-wide association studies as well as clinical protocols for measurement of early childhood caries and saliva, and supragingival fluids and biofilm collection and subsequent analyses. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, *Odontogenesis: Methods and Protocols* aims to guide researchers towards elucidating the secrets and mysteries of a fascinating and unique organ, the tooth.

Antibody-Drug Conjugates

This open access book offers insights into the development of the ground-breaking Global Code of Conduct for Research in Resource-Poor Settings (GCC) and the San Code of Research Ethics. Using a new, intuitive moral framework predicated on fairness, respect, care and honesty, both codes target ethics dumping - the export of unethical research practices from a high-income setting to a lower- or middle-income setting. The book is a rich resource of information and argument for any research stakeholder who opposes double standards in research. It will be indispensable for applicants to European Union framework programmes, as the GCC is now a mandatory reference document for EU funding.

The Nucleolus

Women's Lives into Print provides a remarkable collection of essays by feminist scholars and writers who focus on the theory, practice and writing of women's auto/biographies. Not only does it foster debate about the reading and interpretation of women's lives, it also explores issues relating to research methodology, and raises questions about the representation of women within feminist auto/biography. Working across a range of subject disciplines, this book comprises a vital and ground-breaking critical text for anyone interested in auto/biography.

MCSA Windows Server 2012 R2 Complete Study Guide

This book constitutes the refereed proceedings of the 47th Annual Conference of the Southern African Computer Lecturers' Association on ICT Education, SACLA 2018, held in Gordon's Bay, South Africa, in June 2018. The 23 revised full papers presented together with an extended abstract of a keynote paper were carefully reviewed and selected from 79 submissions. The papers are organized in topical sections: playfulness, media and classrooms, academia and careers, teaching programming, adaptation and learning, teamwork and projects, learning systems, topic teaching.

Advances in Regenerative Medicine: Role of Nanotechnology, and Engineering Principles

This book is open access under a CC BY 4.0 license. This book provides a fresh, updated and science-based perspective on the current status and prospects of the diverse array of topics related to the potato, and was written by distinguished scientists with hands-on global experience in research aspects related to potato. The potato is the third most important global food crop in terms of consumption. Being the only vegetatively propagated species among the world's main five staple crops creates both issues and opportunities for the potato: on the one hand, this constrains the speed of its geographic expansion and its options for international commercialization and distribution when compared with commodity crops such as maize, wheat or rice. On the other, it provides an effective insulation against speculation and unforeseen spikes in commodity prices, since the potato does not represent a good traded on global markets. These two factors

highlight the underappreciated and underrated role of the potato as a dependable nutrition security crop, one that can mitigate turmoil in world food supply and demand and political instability in some developing countries. Increasingly, the global role of the potato has expanded from a profitable crop in developing countries to a crop providing income and nutrition security in developing ones. This book will appeal to academics and students of crop sciences, but also policy makers and other stakeholders involved in the potato and its contribution to humankind's food security.

Bioeconomy

Kary Mullis was awarded a Nobel Prize for inventing the PCR technique more than a decade ago in 1993. Since its "discovery", multiple adaptations and variations of the standard PCR technique have been described. This publication aims to provide the reader with a guide to the standard PCR technique and its many available variants, with particular emphasis being placed on the role of these PCR techniques in the clinical diagnostic laboratory (the central theme of this book).

The Army Lawyer

This book offers a fresh look on a variety of issues concerning herbal medicine - the methods of growing and harvesting various medicinal plants; their phytochemical content; medicinal usage; regulatory issues; and mechanism of action against myriad of human and animal ailments. 'Medicinal Plants: From Farm to Pharmacy' comprises chapters authored by renowned experts from academics and industry from all over the world. It provides timely, in-depth study/analysis of medicinal plants that are already available in the market as supplements or drug components, while also introducing several traditional herbs with potential medicinal applications from various regions of the world. The book caters to the needs of a diverse group of readers: plant growers, who are looking for ways to enhance the value of their crops by increasing phytochemical content of plant products; biomedical scientists who are studying newer applications for crude herbal extracts or isolated phytochemicals; clinicians and pharmacologists who are studying interactions of herbal compounds with conventional treatment modalities; entrepreneurs who are navigating ways to bring novel herbal supplements to the market; and finally, natural medicine enthusiasts and end-users who want to learn how herbal compounds are produced in nature, how do they work and how are they used in traditional or modern medicine for various disease indications.

Odontogenesis

The ultimate preparation for the USMLE Step 3—completely revised and updated! • The resident's trusted, one-stop guide to acing the Step 3—written by residents and reviewed by faculty for accuracy • Packed with proven test-taking strategies

for the newly revised, 2-day exam • Concise, high-yield format highlights board-relevant information • Renewed emphasis on integrated pathophysiology, plus diagnosis and management “next steps” • 100 mini-cases ideally prepare you for the case portion of the exam • More study-enhancing, vignette-style “flash cards” and full-color clinical images • Resident-tested tips and shortcuts for the CCS • And more!

Medicinal Plants

Published to accompany exhibition held at the Centre Georges Pompidou, Paris 22/5 - 26/8 1996.

AMST'05 Advanced Manufacturing Systems and Technology

Women's Lives Into Print

This book summarizes the NATO Advanced Research Workshop (ARW) on “Nanoengineered Systems for Regenerative Medicine” that was organized under the auspices of the NATO Security through Science Program. I would like to thank NATO for supporting this workshop via a grant to the co-directors. The objective of ARW was to explore the various facets of regenerative medicine and to highlight role of the “the nano-length scale” and “nano-scale systems” in defining and controlling cell and tissue environments. The development of novel tissue regenerative strategies require the integration of new insights emerging from studies of cell-matrix interactions, cellular signalling processes, developmental and systems biology, into biomaterials design, via a systems approach. The chapters in the book, written by the leading experts in their respective disciplines, cover a wide spectrum of topics ranging from stem cell biology, developmental biology, cell-matrix interactions, and matrix biology to surface science, materials processing and drug delivery. We hope the contents of the book will provoke the readership into developing regenerative medicine paradigms that combine these facets into clinically translatable solutions. This NATO meeting would not have been successful without the timely help of Dr. Ulrike Shastri, Sanjeet Rangarajan and Ms. Sabine Benner, who assisted in the organization and implementation of various elements of this meeting. Thanks are also due Dr. Fausto Pedrazzini and Ms. Alison Trapp at NATO HQ (Brussels, Belgium). The commitment and persistence of Ms.

Reason and Revolution

Fully updated and expanded-a solid foundation for understanding experimental enzymology. This practical, up-to-date survey is designed for a broad spectrum of biological and chemical scientists who are beginning to delve into modern

enzymology. Enzymes, Second Edition explains the structural complexities of proteins and enzymes and the mechanisms by which enzymes perform their catalytic functions. The book provides illustrative examples from the contemporary literature to guide the reader through concepts and data analysis procedures. Clear, well-written descriptions simplify the complex mathematical treatment of enzyme kinetic data, and numerous citations at the end of each chapter enable the reader to access the primary literature and more in-depth treatments of specific topics. This Second Edition of Enzymes: A Practical Introduction to Structure, Mechanism, and Data Analysis features refined and expanded coverage of many concepts, while retaining the introductory nature of the book. Important new features include: A new chapter on protein-ligand binding equilibria Expanded coverage of chemical mechanisms in enzyme catalysis and experimental measurements of enzyme activity Updated and refined discussions of enzyme inhibitors and multiple substrate reactions Coverage of current practical applications to the study of enzymology Supplemented with appendices providing contact information for suppliers of reagents and equipment for enzyme studies, as well as a survey of useful Internet sites and computer software for enzymatic data analysis, Enzymes, Second Edition is the ultimate practical guide for scientists and students in biochemical, pharmaceutical, biotechnical, medicinal, and agricultural/food-related research.

The journal of histochemistry and cytochemistry

This book is open access under a CC BY 4.0 license. This book defines the new field of "Bioeconomy" as the sustainable and innovative use of biomass and biological knowledge to provide food, feed, industrial products, bioenergy and ecological services. The chapters highlight the importance of bioeconomy-related concepts in public, scientific, and political discourse. Using an interdisciplinary approach, the authors outline the dimensions of the bioeconomy as a means of achieving sustainability. The authors are ideally situated to elaborate on the diverse aspects of the bioeconomy. They have acquired in-depth experience of interdisciplinary research through the university's focus on "Bioeconomy", its contribution to the Bioeconomy Research Program of the federal state of Baden-Württemberg, and its participation in the German Bioeconomy Council. With the number of bioeconomy-related projects at European universities rising, this book will provide graduate students and researchers with background information on the bioeconomy. It will familiarize scientific readers with bioeconomy-related terms and give scientific background for economists, agronomists and natural scientists alike.

Biomanufacturing

This book constitutes the thoroughly refereed post-conference proceedings of the 5th International Conference on Learning and Intelligent Optimization, LION 5, held in Rome, Italy, in January 2011. The 32 revised regular and 3 revised short papers were carefully reviewed and selected from a total of 99 submissions. In addition to the contributions to the general track there are 11 full papers and 3 short papers presented at the following four special sessions; IMON: Intelligent Multiobjective

Optimization, LION-PP: Performance Prediction Self* EAs: Self-tuning, self-configuring and self-generating evolutionary algorithms LION-SWAP: Software and Applications.

The University of Cape Town Law Faculty

This open access book provides original, up-to-date case studies of “ethics dumping” that were largely facilitated by loopholes in the ethics governance of low and middle-income countries. It is instructive even to experienced researchers since it provides a voice to vulnerable populations from the fore mentioned countries. Ensuring the ethical conduct of North-South collaborations in research is a process fraught with difficulties. The background conditions under which such collaborations take place include extreme differentials in available income and power, as well as a past history of colonialism, while differences in culture can add a new layer of complications. In this context, up-to-date case studies of unethical conduct are essential for research ethics training.

Academic Literacy

This book provides a path for resolving challenges related to access, diversity, equity, and other issues facing higher education admissions. It illuminates current higher education admissions practices in a global context, highlighting common obstacles. The chapters outline decision-making models used in college admissions, details those assessments commonly employed in admissions, and provides innovative perspectives on the future of admissions. The book's multidisciplinary approach defines much-needed changes in admissions brought about by shifts in the makeup of student populations and in higher education itself. Rationales for moving away from traditional assessments used in admissions and expanding the criteria used to ensure a student's academic success are discussed. Readers will come away with an understanding of the current issues, philosophies, and historical circumstances facing higher education admissions across the globe and will be equipped to contemplate and react to future possibilities and opportunities.

Place Branding

Prepare for the MCSA Windows Server 2012 R2 Exams Microsoft's new version of the MCSA certification for Windows Server 2012 R2 requires passing three exams (or one Upgrade exam if you have your MCSA or MCITP in Windows Server 2008). This value-priced study guide includes more than 1,000 pages of quality exam-prep content, covering 100% of the objective domains of all three exams (as well as the Upgrade exam, 70-417). In addition, you get access to an interactive practice test environment with more than 500 questions, electronic flashcards, and videos showing how to perform the more difficult tasks. Both first-time MCSA candidates and those wishing to upgrade from Server 2008 certification will benefit from this

complete test-prep guide. Completely updated to cover the Windows Server 2012 R2 Exams Provides a comprehensive study guide for all three MCSA Windows Server 2012 R2 exams: 70-410, 70-411, and 70-412, as well as the Upgrade exam: 70-417 Covers installing and configuring Windows Server 2012; deploying and configuring DNS service; administering Active Directory; creating and managing Group Policy Objects; and configuring server roles and features, Hyper-V, and core networking services Explains basic networking concepts, DHCP, deploying and maintaining servers, configuring a network policy server infrastructure and high availability in Windows Server 2012, and much more Features real-world scenarios, hands-on exercises, practice exam questions, electronic flashcards, and over an hour of video demonstrations Covers all exam objectives MCSA Windows Server 2012 R2 Complete Study Guide arms you with all the information you must master to achieve MCSA certification on Windows Server 2012 R2.

Dancing with Butterflies

Manufacturing a product is not difficult, the difficulty consists in manufacturing a product of high quality, at a low cost and rapidly. Drastic technological advances are changing global markets very rapidly. In such conditions the ability to compete successfully must be based on innovative ideas and new products which has to be of high quality yet low in price. One way to achieve these objectives would be through massive investments in research of computer based technology and by applying the approaches presented in this book. The First International Conference on Advanced Manufacturing Systems and Technology AMST87 was held in Opatija (Croatia) in October 1987. The Second International Conference on Advanced Manufacturing Systems and Technology AMSV90 was held in Trento (Italy) in June 1990. The Third, Fourth, Fifth and Sixth Conferences on Advanced Manufacturing Systems and Technology were all held in Udine (Italy) as follows: AMST93 in April 1993, AMST96 in September 1996, AMST99 in June 1999 and AMST02 in June 2002.

Ethics Dumping

Academic literacy - prepare to learn is different from traditional courses in that it is task-based: it requires of language learners who are developing their academic literacy to do authentic academic tasks and to solve real academic problems.

Vascular Transport in Plants

Formless

Polygon Mesh Processing

Adopted by the United Nations Statistical Commission, these recommendations assist governments and businesses involved in tourism in preparing appropriate policies and programmes. The recommendations help to establish clear standards for measuring tourism. Includes the Standard International Classification of Tourism Activities (SICTA).

Equitable Research Partnerships

This volume provides an up-to-date compilation of current methodological approaches utilized for the exploration of nucleolar structure and function. Chapters cover a diversity of protocols that include imaging of the nucleolus, analysis of ribosomal RNA transcription and processing, and genomics and proteomics of the nucleolus. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, *The Nucleolus: Methods and Protocols* provides scientists with a reliable practical handbook to facilitate the investigation of this nuclear compartment at the advanced level.

Effective Learning and Teaching in Mathematics and Its Applications

Geometry processing, or mesh processing, is a fast-growing area of research that uses concepts from applied mathematics, computer science, and engineering to design efficient algorithms for the acquisition, reconstruction, analysis, manipulation, simulation, and transmission of complex 3D models. Applications of geometry processing algorithms already cover a wide range of areas from multimedia, entertainment, and classical computer-aided design, to biomedical computing, reverse engineering, and scientific computing. Over the last several years, triangle meshes have become increasingly popular, as irregular triangle meshes have developed into a valuable alternative to traditional spline surfaces. This book discusses the whole geometry processing pipeline based on triangle meshes. The pipeline starts with data input, for example, a model acquired by 3D scanning techniques. This data can then go through processes of error removal, mesh creation, smoothing, conversion, morphing, and more. The authors detail techniques for those processes using triangle meshes. A supplemental website contains downloads and additional information.

Essential Immunology

The analysis and sorting of large numbers of cells with a fluorescence-activated cell sorter (FACS) was first achieved some 30 years ago. Since then, this technology has been rapidly developed and is used today in many laboratories. A Springer

Lab Manual Review of the First Edition: "This is a most useful volume which will be a welcome addition for personal use and also for laboratories in a wide range of disciplines. Highly recommended." CYTOBIOS

Entrepreneurship and Social Change

Research in the pharmaceutical sciences and medicinal chemistry has taken an important new direction in the past two decades with a focus on large molecules, especially peptides and proteins, as well as DNA therapeutics. In *Drug Design and Discovery: Methods and Protocols*, leading experts provide an in-depth view of key protocols that are commonly used in drug discovery laboratories. Covering both classic and cutting-edge techniques, this volume explores computational docking, quantitative structure-activity relationship (QSAR), peptide synthesis, labeling of peptides and proteins with fluorescent labels, DNA-microarray, zebrafish model for drug screening, and other analytical screening and biological assays that are routinely used during the drug discovery process. Written in the highly successful *Methods in Molecular Biology*TM series format, chapters include introductions to their respective topics, lists of the necessary materials, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Thorough and accessible, *Drug Design and Discovery: Methods and Protocols* serve as a vital laboratory reference for pharmaceutical chemists, medicinal chemists, and pharmacologists as well as for molecular biologists.

Principles and Technical Aspects of PCR Amplification

Dancing with Butterflies uses the alternating voices of four very different women whose lives interconnect through a common passion for their Mexican heritage and a dance company called Alegría. Yesenia, who founded Alegría with her husband, Eduardo, sabotages her own efforts to remain a vital, vibrant woman when she travels back and forth across the Mexican border for cheap plastic surgery. Elena, grief stricken by the death of her only child and the end of her marriage, finds herself falling dangerously in love with one of her underage students. Elena's sister, Adriana, wears the wounds of abandonment by a dys-functional family and becomes unable to discern love from abuse. Soledad, the sweet-tempered illegal immigrant who designs costumes for Alegría, finds herself stuck back in Mexico, where she returns to see her dying grandmother. Reyna Grande has brought these fictional characters so convincingly to life that readers will imagine they know them.

Higher Education Admissions Practices

Handbook of Detection of Enzymes on Electrophoretic Gels

Current Trends in Biomanufacturing focuses on cutting-edge research regarding the design, fabrication, assembly, and measurement of bio-elements into structures, devices, and systems. The field of biomaterial and biomanufacturing is growing exponentially in order to meet the increasing demands of for artificial joints, organs and bone-fixation devices. Rapid advances in the biological sciences and engineering are leading to newer and viable resources, methods and techniques that may providing better quality of life and more affordable health care services. The book covers the broad aspects of biomanufacturing, including: synthesis of biomaterials; implant coating techniques; spark plasma sintering; microwave processing; and cladding, powder metallurgy and electrospinning. The contributors illustrate the recent trends of biomanufacturing, highlighting the important aspects of biomaterial synthesis, and their use as feedstock of fabrication technologies and their characterization, along with their clinical practices. Current Trends in Biomanufacturing updates researchers and scientists the novelties and techniques of the field, as it summarises numerous aspects of biomanufacturing, including synthesis of biomaterials, fabrication of biomedical structures, their in-vivo/ in-vitro, mechanical analysis and associated ISO standards.

New Perspectives on Games and Interaction

The topic of place branding is moving from infancy to adolescence. Many cities, and nations have already established their place brand and this well documented new book brings the fundamentals of place branding together in an academic format but is at the same time useful for practice.

First Aid for the USMLE Step 3, Fourth Edition

Vascular Transport in Plants provides an up-to-date synthesis of new research on the biology of long distance transport processes in plants. It is a valuable resource and reference for researchers and graduate level students in physiology, molecular biology, physiology, ecology, ecological physiology, development, and all applied disciplines related to agriculture, horticulture, forestry and biotechnology. The book considers long-distance transport from the perspective of molecular level processes to whole plant function, allowing readers to integrate information relating to vascular transport across multiple scales. The book is unique in presenting xylem and phloem transport processes in plants together in a comparative style that emphasizes the important interactions between these two parallel transport systems. Includes 105 exceptional figures Discusses xylem and phloem transport in a single volume, highlighting their interactions Syntheses of structure, function and biology of vascular transport by leading authorities Poses unsolved questions and stimulates future research Provides a new conceptual framework for vascular function in plants

Financial Transition in Europe and Central Asia

This book focuses on understandings of higher education in relation to notions of decoloniality and decolonization in southern Africa. The volume draws on a range of case studies in multiple politico-cultural contexts on the African continent, and examines some of the challenges to be overcome in order to achieve education for decolonization and decoloniality. Acknowledging that patterns of exclusion, inequality and injustice are still prevalent in the African higher education landscape, the editors and contributors proffer bold attempts at democratizing education and examine how to cultivate just, equal and diverse pedagogical relations. Featuring case studies from South Africa, Zambia, Malawi, and Zimbabwe, the authors and editors examine how higher education can be further democratized and transformed along the lines of equality, liberty and recognition of diversity. This hopeful and bold collection will be of interest to scholars of decoloniality and decolonization in higher education, as well as higher education in southern Africa more specifically.

Enzymes

This book contains 21 papers focusing on a wide range of issues concerning financial sector transition in the countries of Europe and Central Asia (ECA). It places the transition economies in the context of recent and prospective developments in global financial markets. This book also evaluates the experience of the last 10 years and reviews the progress from a command financial system to a market-based one, identifying some of the key characteristics of the financial transition.

Recommendations on Tourism Statistics

This book provides a solution to the ecological inference problem, which has plagued users of statistical methods for over seventy-five years: How can researchers reliably infer individual-level behavior from aggregate (ecological) data? In political science, this question arises when individual-level surveys are unavailable (for instance, local or comparative electoral politics), unreliable (racial politics), insufficient (political geography), or infeasible (political history). This ecological inference problem also confronts researchers in numerous areas of major significance in public policy, and other academic disciplines, ranging from epidemiology and marketing to sociology and quantitative history. Although many have attempted to make such cross-level inferences, scholars agree that all existing methods yield very inaccurate conclusions about the world. In this volume, Gary King lays out a unique--and reliable--solution to this venerable problem. King begins with a qualitative overview, readable even by those without a statistical background. He then unifies the apparently diverse findings in the methodological literature, so that only one aggregation problem remains to be solved. He then presents his solution, as well as empirical evaluations of the solution that include over 16,000 comparisons of his estimates from real aggregate data to the known individual-level answer. The method works in practice. King's solution to the ecological inference problem will enable empirical researchers to investigate substantive questions that have heretofore proved unanswerable, and move forward fields of inquiry in which progress has been stifled by this problem.

ICT Education

This volume is a collection of papers presented at the 2007 colloquium on new perspectives on games and interaction at the Royal Dutch Academy of Sciences in Amsterdam.

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