

Eighth Semester B.E. Degree Examination, May/June 2010
Biomedical Signal Processing

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART – A

1. a. Explain the following biomedical signals. Draw the waveforms and give the frequency ranges relevant to these signals:
 (i) ECG
 (ii) EEG (88 Marks)
- b. With the help of a block diagram, explain the objectives of biomedical signal analysis. (16 Marks)
- c. Explain three difficulties encountered in biomedical signal analysis and acquisition. (16 Marks)
2. a. Starting from mesh equations of potential differences between the limbs RA, LA and LL, derive the expressions for aV_{RL} , aV_{CL} and aV_{RL} . Also represent relationships between these standard and augmented leads voltage. (16 Marks)
- b. What are the two types of electrodes used in ECG? Which of them is popular? Why? (16 Marks)
- c. Draw a diagram to illustrate the electrode placements for the Frank VCG lead system. Also write the resistor network for combining the body surface potential to produce the three time varying scalar leads of the Frank VCG lead system. (16 Marks)
3. a. If the output sequence of a digital filter is {1, 3, 2} in response to a unit impulse, what is the transfer function of this filter? Draw the poles and zeroes of this transfer function mentioning the ROC. (16 Marks)
- b. What are the advantages of digital filters over analog filters? Explain. (16 Marks)
- c. The z-transform of a filter is $H(z) = \frac{1}{4} (1 + 2z^{-1} + z^{-2})$. What is its (i) amplitude response, (ii) phase response, (iii) difference equation? (16 Marks)
4. a. With a block diagram and relevant equations, explain LMS algorithm used in noise canceler model. (16 Marks)
- b. What are the advantages of adaptive filter? List the applications of biomedical clinical origin for using the adaptive filters. (16 Marks)
- c. What are the difficulties encountered in capturing ECG of an unborn child? How to solve these difficulties? (16 Marks)

PART – B

5. a. Show that signal averaging improves the SNR by a factor of $\sqrt{m}$, where m is the number of sweeps considered. (16 Marks)
- b. Under what noise conditions will signal averaging fail to improve the SNR? (16 Marks)
- c. In a signal averaging application, the amplitude of uncorrelated noise is initially 16 times as large as the signal amplitude. How many sweeps must be averaged to give a resulting signal-to-noise ratio of 4 : 1? (16 Marks)

Abma 2015 June Question Papers

**Ivy M. Alexander, Versie Johnson-
Mallard, Elizabeth Kostas-Polston, Joyce
Cappiello, Joyce D. Cappiello, Heather
S. Hubbard**

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World Congress on Medical Physics and Biomedical Engineering, June 7-12, 2015, Toronto, Canada David A. Jaffray, 2015-07-13 This book presents the proceedings of the IUPESM World Biomedical Engineering and Medical Physics a tri annual high level policy meeting dedicated exclusively to furthering the role of biomedical engineering and medical physics in medicine The book offers papers about emerging issues related to the development and sustainability of the role and impact of medical physicists and biomedical engineers in medicine and healthcare It provides a unique and important forum to secure a coordinated multileveled global response to the need demand and importance of creating and supporting strong academic and clinical teams of biomedical engineers and medical physicists for the benefit of human health

Public Participation in Health Care: Exploring the Co-Production of Knowledge Gill Green, Annette Louise Boaz, Maria Clasina Stuttaford, 2020-01-28 **Decentering Epistemologies and Challenging Privilege** Sophie Bourgault, Maggie FitzGerald, Fiona Robinson, 2024-09-13 Care ethics first emerged as an attempt to decenter ethics feminist scholars like Carol Gilligan argued that women s moral experiences were not reflected in the dominant masculinist approaches to ethics which were centered on a rational disembodied atomistic moral subject Care ethics challenged this model by positing ethics as relational contextualized embodied and realized through practices rather than principles Over the past decades many care ethics scholars have sought to further this project by considering care politically and epistemologically in relation to various intersecting hierarchies of power and knowledge This book advances this project by discussing the ways care ethics contributes to the decentering of dominant epistemologies and to the challenging of privilege and by considering how to decenter care ethics itself via an encounter with non Western philosophical traditions and alternative epistemologies Written by scholars from different countries disciplines and intellectual traditions the volume offers original care ethics contributions on epistemic injustice privileged irresponsibility ecofeminism settler colonialism social movements such as BLM and various racialized and gendered inequities tied to care work *The Routledge Companion to Digital Journalism Studies* Scott A. Eldridge II, Bob Franklin, 2016-11-18 The Routledge Companion to Digital Journalism Studies offers an unprecedented collection of essays addressing the key issues and debates shaping the field of Digital Journalism Studies today Across the last decade journalism has undergone many changes which have driven scholars to reassess its most fundamental questions and in the face of digital change to ask again Who is a journalist and What is journalism This companion explores a developing scholarly agenda committed to understanding digital journalism and brings together the work of key scholars seeking to address key theoretical concerns and solve unique methodological riddles Compiled of 58 original essays from distinguished academics across the globe this Companion draws together the work of those making sense of this fundamental reconceptualization of journalism and assesses its impacts on journalism s products its practices resources and its relationship with audiences It also outlines the challenge presented by studying digital

journalism and more importantly offers a first set of answers This collection is the very first of its kind to attempt to distinguish this emerging field as a unique area of academic inquiry Through identifying its core questions and presenting its fundamental debates this Companion sets the agenda for years to come in defining this new field of study as Digital Journalism Studies making it an essential point of reference for students and scholars of journalism

Women's Healthcare in Advanced Practice Nursing Ivy M. Alexander, Versie Johnson-Mallard, Elizabeth Kostas-Polston, Joyce Cappiello, Joyce D. Cappiello, Heather S. Hubbard, 2023-10-30 Holistically addresses women's health encompassing the needs of transgender and nonbinary individuals and considering ethnicity social class and disability ableness Delivering incisive and comprehensive information on the healthcare needs of women transgender and nonbinary persons the third edition of this distinguished text incorporates a strong focus on the provision of high value equitable and unbiased care It expands research and clinical frameworks for understanding women's health to encompass transgender and nonbinary persons and places women's health within a holistic perspective considering ethnicity social class and disability ableness All chapters are significantly updated with new evidence based research clinical updates and guidelines drug information Covid related information racism and health disparities This text also covers current and pertinent health topics such as substance use and abuse mental health early pregnancy decision making and LGBTQ care as well as abundant integrated information on care of transgender and nonbinary individuals and enhanced information on pregnancy and primary care issues that disproportionately affect females The book is organized for ease of use and is comprised of three distinct but interrelated sections on theoretical frameworks to guide approach and care health promotion and prevention and managing health conditions Rich instructor resources include mapping content to AACN Essentials case studies a test bank and PowerPoint slides New to the Third Edition Focuses on providing equitable unbiased care for all women including transgender and nonbinary individuals Updated with new evidence based research clinical updates and guidelines drug information Covid related information and racism and health disparities information Expanded information on care of transgender individuals Enhanced content on pregnancy and related issues Four color presentation to enhance readability Incorporates content in WHNP and CNM national certification examination blueprints Key Features Distills cutting edge information on women's health issues through a sociocultural framework Edited by renowned scholar educators for AP nursing students Organized to provide easy retrieval of clinical information Addresses genetics LGBTQ health endocrine related problems health considerations for women caregivers dementia care and more Includes relevant web resources and apps in each chapter Provides extensive instructor toolkit to foster critical thinking

[Ebook: Essentials of Understanding Psychology](#) Feldman, 2016-09-16 Ebook Essentials of Understanding Psychology

How Girls Achieve Sally A. Nuamah, 2019-04-22 Winner of the Jackie Kirk Award Winner of the AESA Critics Choice Award Blazes new trails in the study of the lives of girls challenging all of us who care about justice and gender equity not only to create just and inclusive educational institutions but to be unapologetically feminist in doing so

Seamlessly merging research with the stories and voices of girls and those who educate them this book reminds us that we should do better and inspires the belief that we can It is the blueprint we've been waiting for Brittney C Cooper author of *Eloquent Rage* Nuamah makes a compelling and convincing case for the development of the type of school that can not only teach girls but also transform them An essential read for all educators policymakers and parents invested in a better future Joyce Banda former President of the Republic of Malawi This bold and necessary book points out a simple and overlooked truth most schools never had girls in mind to begin with That is why the world needs what Sally Nuamah calls feminist schools deliberately designed to provide girls with achievement oriented identities And she shows how these schools would help all students regardless of their gender Educated women raise healthier families build stronger communities and generate economic opportunities for themselves and their children Yet millions of disadvantaged girls never make it to school and too many others drop out or fail Upending decades of advice and billions of dollars in aid Nuamah argues that this happens because so many challenges girls confront from sexual abuse to unequal access to materials and opportunities go unaddressed But it isn't enough just to go to school What you learn there has to prepare you for the world where you'll put that knowledge to work A compelling and inspiring scholar who has founded a nonprofit to test her ideas Nuamah reveals that developing resilience is not a gender neutral undertaking Preaching grit doesn't help girls it actively harms them Drawing on her deep immersion in classrooms in the United States Ghana and South Africa Nuamah calls for a new approach creating feminist schools that will actively teach girls how and when to challenge society's norms and allow them to carve out their own paths to success

Spaceflight Giles Sparrow, 2019-05-02 This compelling story of exploration charts and celebrates humankind in space from Sputnik's launch in 1957 through the Apollo Moon landings and the International Space Station to future missions to Mars and beyond Spaceflight chronicles how in the six decades that followed Sputnik the world was revolutionized by space travel and exploration The opening up of Earth's orbit to satellites led to a revolution in communications monitoring of the environment and materials science For the human imagination the impact has been even greater the voyages of robotic space probes have transformed our view of the Solar System while Earth orbiting satellites and missions to the Moon have forever changed our view of ourselves This ebook is a celebration of human ingenuity and imagination From the work of pioneers like Wernher von Braun Yuri Gagarin and Neil Armstrong to the triumphs and tragedies that followed it reveals the people science and technology that have propelled us into the Space Age

Youth and Sexuality in the Twentieth-Century United States John C. Spurlock, 2015-07-16 When did the sexual revolution happen Most Americans would probably say the 1960s In reality young couples were changing the rules of public and private life for decades before By the early years of the twentieth century teenagers were increasingly free of adult supervision and taking control of their sexuality in many ways Dating going steady necking petting and cohabiting all provoked adult hand wringing and advice most of it ignored By the time the media began announcing the arrival of a sexual revolution it had been

going on for half a century Youth and Sexuality in the Twentieth Century United States tells this story with fascinating revelations from both personal writings and scientific sex research John C Spurlock follows the major changes in the sex lives of American youth across the entire century considering how dramatic revolutions in the culture of sex affected not only heterosexual relationships but also gay and lesbian youth and same sex friendships The dark side of sex is also covered with discussion of the painful realities of sexual violence and coercion in the lives of many young people Full of details from first person accounts this lively and accessible history is essential for anyone interested in American youth and sexuality

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