LIFE SCIENCES 2022

GRADE 10

Date:					
L. Carrier	 	 _	 	 	_

Total	
	30

Duration: 45 minutes

Name:

INSTRUCTIONS AND INFORMATION

Read the following instructions carefully before answering the questions.

- This is a formal SBA task and must be done under supervised conditions in the classroom.
- Each learner completes this task on his/her own (under test conditions).
- Present the answers according to the instructions of each question.
- Draw all diagrams in pencil and labels in blue ink.
- The diagrams in the question paper may NOT be drawn to scale.

BACKGROUND INFORMATION

The biosphere is the thin layer of land, air and water around the earth's surface that supports life. The abiotic, or non-living, portion of each ecosystem in the biosphere includes the flow of energy, nutrients, water, and gases and the concentrations of organic and inorganic substances in the environment. The biotic, or living, portion includes organisms based on their methods of acquiring energy: the primary producers, largely green plants, the consumers, which include all the animals, and the decomposers, which include the microorganisms that break down the remains of plants and animals into simpler components for recycling in the biosphere.

Ecological pyramids are a graphical representation in the shape of a pyramid to show the feeding relationship of groups of organisms, and the flow of energy or biomass through the different trophic levels in a given ecosystem.

QUESTION 1: Abiotic factors

Grade 10 learners carried out an investigation to determine the water content,

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The Practice of Enterprise Modeling Jennifer Horkoff, Manfred A. Jeusfeld, Anne Persson, 2016-10-27 This volume constitutes the proceedings of the 9th IFIP WG 8 1 Conference on the Practice of Enterprise Modeling held in November 2016 in Sk vde Sweden The PoEM conference series started in 2008 and aims to provide a forum sharing knowledge and experiences between the academic community and practitioners from industry and the public sector The 18 full papers and 9 short papers accepted were carefully reviewed and selected from 54 submissions and cover topics related to information systems development enterprise modeling requirements engineering and process management In addition the keynote by Robert Winter on Establishing Architectural Thinking in Organizations is also included in this volume Body in Buddhist Contemplative Practice and Mindfulness-Based Therapy Padmasiri de Silva, 2017-06-30 This book represents an outstanding contribution to the field of somatic psychology It focuses on the relationship between body and emotions and on the linkages between mindfulness based emotion studies and neuroscience The author discusses the awakening of somatic intelligence as a journey through pain and trauma management the moral dimensions of somatic passions and the art and practice of embodied mindfulness Issues such as the emotions and the body in relation to Buddhist contemplative practice against the background of the most recent findings of current neuroscience are expanded in the book A broad review of the Darwinian Jamesian heritage on emotion studies is a unique contribution to the tradition of the somatogenic strands of emotions and provides a contrasting focus to the ideogenic emotions in Sigmund Freud This work provides an invaluable resource for students of psychology and philosophy psychotherapists and meditation teachers students and for anyone with an interest in the field of somatic psychology Chinese Research Perspectives on Educational Development, Volume 4 Dongping Yang, 2019-09-24 This collection of articles selected from Blue Book of Chinese Education 2015 published in Chinese reviews the condition of China's education development in 2014 The wide range of topics covered in this volume fall under two major themes reform and equity Chapters on reform focus on the college entrance exam Gaokao secondary vocational education senior high school education provincially and locally funded colleges private universities and junior high school admissions policies Chapters in the second half of the book provide readers with an in depth account of efforts made to improve equity in special and early childhood education study abroad preparation classes and rural education The appendix includes a report of budgetary expenditure on education and chronology of major events Biopolitics of the More-Than-Human Joseph Pugliese, 2020-10-23 In Biopolitics of the More Than Human Joseph Pugliese examines the concept of the biopolitical through a nonanthropocentric lens arguing that more than human entities from soil and orchards to animals and water are actors and agents in their own right with legitimate claims to justice Examining occupied Palestine Guant namo and sites of US drone strikes in Afghanistan Pakistan Somalia and Yemen Pugliese challenges notions of human exceptionalism by arguing that more than human victims of war and colonialism are entangled with and subject to the same

violent biopolitical regimes as humans He also draws on Indigenous epistemologies that invest more than human entities with judicial standing to argue for an ethico legal framework that will enable the realization of ecological justice Bringing the more than human world into the purview of justice Pugliese makes visible the ecological effects of human war that would otherwise remain outside the domains of biopolitics and law The European Union in the 21st Century Nikolaos Zahariadis, 2023-08-24 The European Union in the 21st Century takes a fresh look at a complex and ever changing organization by examining its pursuit of two very different objectives power security and political weight and plenty economic growth and social welfare Nikolaos Zahariadis aims to help students understand these two objectives and how the tension between them affects different issue areas illuminating how each objective represents a different perspective on what the EU is and what it does The book also introduces students to the systematic thinking that political scientists employ to see the connections between policies institutions and actors By unpacking the various perspectives students will gain greater insight into how policymakers think and why EU leaders make the kinds of decisions they do Heart Failure: A Companion to Braunwald's Heart Disease E-Book G. Michael Felker, Douglas L. Mann, 2019-02-06 Up to date authoritative and comprehensive Heart Failure 4th Edition provides the clinically relevant information you need to effectively manage and treat patients with this complex cardiovascular problem This fully revised companion to Braunwald's Heart Disease helps you make the most of new drug therapies such as angiotensin receptor neprilysin inhibitors ARNIs recently improved implantable devices and innovative patient management strategies Led by internationally recognized heart failure experts Dr G Michael Felker and Dr Douglas Mann this outstanding reference gives health care providers the knowledge to improve clinical outcomes in heart failure patients Focuses on a clinical approach to treating heart failure resulting from a broad variety of cardiovascular problems Covers the most recent guidelines and protocols including significant new updates to ACC AHA and HFSA guidelines Covers key topics such as biomarkers and precision medicine in heart failure and new data on angiotensin receptor neprilysin inhibitors ARNIs Contains four new chapters Natriuretic Peptides in Heart Failure Amyloidosis as a Cause of Heart Failure HIV and Heart Failure and Neuromodulation in Heart Failure Covers the pathophysiological basis for the development and progression of heart failure Serves as a definitive resource to prepare for the ABIM's Heart Failure board exam 2016 British Medical Association Award First Prize Cardiology 3rd Edition Frontiers of Manufacturing and <u>Design Science IV</u> Wen Pei Sung, Ran Chen, 2014-01-16 Selected peer reviewed papers from the 4th International Conference on Frontiers of Manufacturing and Design Science ICFMD 2013 September 10 12 2013 Hong Kong China Part - Study Guide for Kinn's the Medical Assistant Deborah B. Proctor, 2013-08-19 PART Study Guide for Kinn's The Medical Shared Governance for Sustainable Working Landscapes Timothy M. Gieseke, 2016-08-05 Sustaining our Assistant agricultural landscapes is no longer just a technical scientific or even political problem but it has evolved into a socially complex so called wicked problem of conflicting social governance and economics This creates an extreme economic obstacle

where the value of ecosystem services remains low and diffuse and the transactions costs remain high and multiple Using Uber like business platform technology and a shared governance model a symbiotic demand for environmental benefits is created Enabling multi sector transactions for environmental benefits this platform innovation would remedy the tragedy of the commons the economic nemesis to achieving landscape sustainability In a nutshell to sustain our agricultural landscapes a transdisciplinary approach supported by a shared governance model housed within a multi sided platform in needed This book introduces an assessment framework identifying governance actors styles and ratios for socio ecological systems The assessment uses a new governance compass to identify the types of actors completing which tasks and identifies the styles of governance used to complete the tasks It is aimed to anyone involved in sustainability science agricultural policy planning or integrated landscape design Transformation of Archives and Heritage Education in Post-apartheid South Africa Geraldine Frieslaar, Olusegun Morakinyo, 2023-06-10 Although there have been significant strides to transform the demographics of archive and museum personnel develop new museums and heritage institutions and heritage training initiatives in post apartheid South Africa the Eurocentric model of the archive museum and heritage sector has largely remained intact Despite the euphoria around the transformation of heritage in the beginnings of post apartheid South Africa it can be argued that the transformation of heritage institutions has been superficial and cosmetic with the ideological foundation of the colonial archive and museum as well as Eurocentric modalities of heritage education remaining solid largely unmoved and under continuing challenge This is the thrust of this book which reflects on the transformation of archives and museum and heritage education in South Africa and argues for meaningful transformation of the sector through a decolonisation from its Eurocentric mooring Navigating Life Transitions for Meaning Elizabeth M. Altmaier, 2020-07-07 Navigating Life Transitions for Meaning explores the central human motivation of meaning making and its counterpart meaning disruption The book describes different types of specific transitions details how specific transitions affect an individual differently and provides appropriate clinical approaches The book examines the effects of life transitions on the component parts of meaning in life including making sense coherence driving life goals purpose significance mattering and continuity The book covers a range of transitions including developmental e g adolescence to adulthood personal e g illness onset becoming a parent and bereavement and career e g military deployment downshifting and retiring Life transitions are experienced by all persons and the influence of those transitions are tremendous It is essential for clinicians to understand how transitions can disrupt life and how to help clients successfully navigate these changes Covers cultural transitions such as immigration and religious conversion Examines health transitions such as cancer survivorship and acquired disability Uses a positive psychology framework to understand transitions Includes bulleted take away summaries of key points in each chapter Provides clinical applications of theory to practice Ebersole & Hess' Toward Healthy Aging E-Book Theris A. Touhy, Kathleen F Jett, 2019-08-24 Ensure you thoroughly understand the intricate details of providing effective care for

adults as they age Ebersole Hess Toward Healthy Aging 10th Edition is the only comprehensive gerontological nursing text that effectively communicates how to provide holistic care promote healthy lives and address end of life issues and concerns Grounded in the core competencies recommended by the AACN in collaboration with the Hartford Institute for Geriatric Nursing the tenth edition has been extensively revised and updated with shorter more streamlined chapters and pedagogical features to facilitate learning It covers the areas of safety and ethical considerations genetics communication with the patient and caregiver promoting health in persons with conditions commonly occurring in later life world wide addressing loss and palliative care and much more Special sections provide an honest look at the universal experience of aging and the nurse s role in the reduction of health disparities and inequities as a member of the global community Plus it contains a variety of new learning features that focus on applying research and thinking critically in when providing care to aging adults across the care continuum Adult-Gerontology Acute Care Practice Guidelines Catherine Harris, 2019-07-15 The First Book of its Kind Praise from Doody's Medical Reviews Score 93 This well developed book provides acute care guidelines for the geriatric population in an easy to follow format that uses structural elements such as numbering and multilevel lists for each system It is an excellent reference for advanced practice prepared clinicians to help identify diagnose and develop a treatment plan for acute health issues in older adults and geriatric patients Tho Nguyen DNP MSN RN Delivers expert guidance for the common conditions seen in adult gerontology acute care practice. The first book of its kind this evidence based resource provides nurse practitioners physician assistants and other advanced practice providers with the clinical knowledge they need to effectively practice adult gerontology acute care In quick reference format this system based text describes more than 90 common conditions health providers are likely to see in their acute care practice. In this interprofessionally contributed text nurse practitioner physician assistant and physician authors provide expert insight into each condition enabling readers to categorize symptoms be alert to the distinguishing features of disease symptoms and clusters and find associated diagnoses Comprehensive descriptions of conditions encompass definitions incidence pathophysiology common signs and symptoms vital subjective and pertinent physical exam data differential diagnoses diagnostic tests and evaluation and management plans This handy accessible text also includes perioperative considerations discharge guidelines treatment and disease management algorithms and procedural guidelines Key Features Presents key points for more than 90 acute care conditions in quick reference format Includes considerations for such topics as preoperative intraoperative and postoperative evaluation and management Offers discharge guidelines for inpatient conditions Disseminates over 20 procedural guidelines such as central and arterial line insertion bronchoscopy ECMO endotracheal intubation and more Yearbook of International Organizations 2013-2014 (Volumes 1a-1b) Union Of International Associations, Union of International Associations, 2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events Midwifery Preparation for Practice Sally Pairman, Sally K. Tracy, Hannah Dahlen, Lesley

Dixon, 2022-10-15 Now in its 5th edition Midwifery Preparation for Practice continues to present a global model of midwifery best practice that is supported by a range of examples from the Australian New Zealand and international midwifery contexts Endorsed by the Australian College of Midwives and the New Zealand College of Midwives the text continues to reinforce the established principles of midwifery philosophy and practice that of midwives working in partnership with women in woman centred models or midwife led care This focus is what sets this text apart from other physiology based midwifery texts making it a highly valued resource for students and practicing midwives alike The highly esteemed team of editors once again lead a group of internationally recognised leaders in midwifery to share their knowledge and expertise in midwifery practice education research and regulation across Australia New Zealand and internationally Aligned to local and international midwifery standards for practice and guidelines Endorsed by the Australian College of Midwives and the New Zealand College of Midwives Presented in 2 volumes for ease of use Videos to support learning New chapters Sustainability and Environmental Health Care Ethical Frameworks for Practice Updated midwifery guidelines and practice examples throughout Management of Legionella in Water Systems National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Division on Earth and Life Studies, Board on Population Health and Public Health Practice, Board on Life Sciences, Water Science and Technology Board, Committee on Management of Legionella in Water Systems, 2020-02-20 Legionnaires disease a pneumonia caused by the Legionella bacterium is the leading cause of reported waterborne disease outbreaks in the United States Legionella occur naturally in water from many different environmental sources but grow rapidly in the warm stagnant conditions that can be found in engineered water systems such as cooling towers building plumbing and hot tubs Humans are primarily exposed to Legionella through inhalation of contaminated aerosols into the respiratory system Legionnaires disease can be fatal with between 3 and 33 percent of Legionella infections leading to death and studies show the incidence of Legionnaires disease in the United States increased five fold from 2000 to 2017 Management of Legionella in Water Systems reviews the state of science on Legionella contamination of water systems specifically the ecology and diagnosis This report explores the process of transmission via water systems quantification prevention and control and policy and training issues that affect the incidence of Legionnaires disease It also analyzes existing knowledge gaps and recommends research priorities moving forward The Oxford Handbook of Behavioral Emergencies and Crises Phillip M. Kleespies, 2016-09-19 The Oxford Handbook of Behavioral Emergencies and Crises includes the most up to date and valuable research on the evaluation and management of the most challenging patients or clients faced by mental health providers individuals who are at high risk of suicide of other directed violence or of becoming the victims of interpersonal violence These are cases in which the outcome can be serious injury or death and there can be negative consequences not only for the patient but also for the patient's family and friends for the assessing or treating clinician and for the patient's clinic or medical center Virtually all mental health clinicians with an active caseload will see

individuals with such issues This Handbook is comprised of chapters by leading clinicians researchers and scholars in this area of practice It presents a framework for learning the skills needed for assessing and working competently with such high risk individuals Chapters draw a distinction between behavioral emergencies and crises and between emergency intervention and crisis intervention The book examines the inter related aspects of the major behavioral emergencies that is for example the degree to which interpersonal victimization may lead an individual on a pathway to later suicidal or violent behavior or the degree to which suicidal individuals and violent individuals may share certain cognitive characteristics This resource is not simply a knowledge base for behavioral emergencies it also presents a method for reducing stress and acquiring skills in working with high risk people **CONCRETE Innovations in Materials, Design and Structures** FIB - International Federation for Structural Concrete, 2019-05-27 This Proceedings contains the papers of the fib Symposium CONCRETE Innovations in Materials Design and Structures which was held in May 2019 in Krak w Poland This annual symposium was co organised by the Cracow University of Technology The topics covered include Analysis and Design Sustainability Durability Structures Materials and Prefabrication The fib F d ration internationale du b ton is a not for profit association formed by 45 national member groups and approximately 1000 corporate and individual members. The fib's mission is to develop at an international level the study of scientific and practical matters capable of advancing the technical economic aesthetic and environmental performance of concrete construction The fib was formed in 1998 by the merger of the Euro International Committee for Concrete the CEB and the International Federation for Prestressing the FIP These predecessor organizations existed independently since 1953 and 1952 respectively **Effective Monitoring to Evaluate Ecological Restoration in** the Gulf of Mexico National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Water Science and Technology Board, Ocean Studies Board, Committee on Effective Approaches for Monitoring and Assessing Gulf of Mexico Restoration Activities, 2017-03-16 Gulf Coast communities and natural resources suffered extensive direct and indirect damage as a result of the largest accidental oil spill in US history referred to as the Deepwater Horizon DWH oil spill Notably natural resources affected by this major spill include wetlands coastal beaches and barrier islands coastal and marine wildlife seagrass beds oyster reefs commercial fisheries deep benthos and coral reefs among other habitats and species Losses include an estimated 20% reduction in commercial fishery landings across the Gulf of Mexico and damage to as much as 1 100 linear miles of coastal salt marsh wetlands This historic spill is being followed by a restoration effort unparalleled in complexity and magnitude in U S history Legal settlements in the wake of DWH led to the establishment of a set of programs tasked with administering and supporting DWH related restoration in the Gulf of Mexico In order to ensure that restoration goals are met and money is well spent restoration monitoring and evaluation should be an integral part of those programs However evaluations of past restoration efforts have shown that monitoring is often inadequate or even absent Effective Monitoring to Evaluate Ecological Restoration in the Gulf of Mexico identifies best practices for monitoring

and evaluating restoration activities to improve the performance of restoration programs and increase the effectiveness and longevity of restoration projects This report provides general guidance for restoration monitoring assessment and synthesis that can be applied to most ecological restoration supported by these major programs given their similarities in restoration goals It also offers specific guidance for a subset of habitats and taxa to be restored in the Gulf including oyster reefs tidal wetlands and seagrass habitats as well as a variety of birds sea turtles and marine mammals Braunwald's Heart Disease E-Book Douglas P. Zipes, 2018-01-09 Trusted by generations of cardiologists for the latest most reliable guidance in the field Braunwald's Heart Disease 11th Edition remains your 1 source of information on rapidly changing clinical science clinical and translational research and evidence based medicine This award winning text has been completely updated providing a superior multimedia reference for every aspect of this fast changing field including new material about almost every topic in cardiology A unique update program by Dr Braunwald creates a living textbook by featuring weekly Hot off the Press and periodic Late Breaking Clinical Trials including links to authors presentation slides More than a dozen new chapters cover Chronic Lung Disorders and Cardiovascular Disease Transcatheter Treatment of Congenital Heart Disease Approach to the Patient with Valvular Heart Disease Obesity and Cardiometabolic Disease Environmental Exposures and CVD Approach to the Patient with Cardiac Arrhythmias Cardio oncology Precision Medicine and more New information on clinical cardiovascular genetics MR PET MR device compatibility fibrosis fusion imaging OCT IVUS left atrial appendage exclusion approaches and other topics Many new videos that elucidate coronary peripheral valvular congenital heart diseases and other cardiovascular diseases Expert ConsultTM eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices

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