

GRADE 10 – PAPER 1 NOVEMBER EXAMINATION

QUESTIONS	TYPE OF QUESTION	TOPIC	MARK ALLOCATION
1.1	Multiple choice	Density of life Respiria Viruses	20
1.2	Terminology	Cells: basic units of life	10
1.3	Matching columns	Plant and animal tissues	20
2.1	Diagram with question	Plant and animal cell	8
2.2	Diagram with question	Plant and animal cell	4
2.3	Diagrams of various drawing labelling	Blood	28
3.1	Diagram with question	Plant and animal tissue	8
3.2	Diagram with question	Plant organs	8
3.3	Identification Anatomy	Transpiration	10
3.4	Diagram with question	Human skeleton	28
3.5	Diagram with question	Human skeleton	26
			TOTAL: 150

Life Science

Grade 10

PAPER 1

Date: NOVEMBER 2023

Time: 2 ½ HOURS

Mark: 150

SECTION A

Question 1

1.1 Various options are provided as possible answers to the following questions. Choose the correct answer and write only the letter (A to D) next to the question number (1.1.1 to 1.1.10) on the FOLDY PAPER, for example 1.1.6 E.

1.1.1 Compounds that do NOT contain carbon.

- A. Organellies.
- B. Inorganic compounds.
- C. Atoms.
- D. Elements.

1.1.2 Fundamental units of a compound that consists of a group of atoms which are held together in fixed proportions by chemical bonds.

- A. Compounds.
- B. Organic compounds.
- C. Molecules.
- D. Atoms.

1.1.3 Medical condition in which there are not enough red blood cells in the blood.

- A. Eutrophication.
- B. Anaemia.
- C. Goitre.
- D. Chlorosis.

Memorandum Life Sciences Paper 1 November 2014

**Joel Lööw, Bo Johansson, Eira
Andersson, Jan Johansson**



Memorandum Life Sciences Paper 1 November 2014:

Principles of Clinical Medicine for Space Flight Michael R. Barratt, Ellen S. Baker, Sam L. Pool, 2020-01-02 In its first edition *Principles of Clinical Medicine for Space Flight* established itself as the authoritative reference on the contemporary knowledge base of space medicine and standards of care for space flyers. It received excellent notices and is used in the curricula of civilian and military training programs and used as a source of questions for the Aerospace Medicine Certifying Examination under the American Board of Preventive Medicine. In the intervening few years the continuous manning of the International Space Station has both strengthened existing knowledge and uncovered new and significant phenomena related to the human in space. The Second Edition incorporates this information. Gaps in the first edition will be addressed with the addition of new and revised chapters. This edition is extensively peer reviewed and represents the most up to date knowledge.

Global Social Policy Kepa Artaraz, Liz Cunningham, Michael Hill, 2016-06-29 Social policy is a subject that helps develop our understanding of the meaning of human wellbeing and of the systems by which wellbeing must be promoted. As a discipline, social policy has traditionally been blunted by a focus on the nation state; however, in this age of globalisation the most pressing challenges such as climate change, ageing populations and flagging economies serve as proof that even at national level social policy is now more heavily influenced by global factors than ever before. In this important and authoritative text, Kepa Artaraz and Michael Hill provide a richly detailed contribution to our understanding of the global forces shaping social problems today. Part One discusses the different approaches to social policy and explores the process of globalisation, looking particularly at its winners and losers and the implications it has for human well-being. Part Two examines more closely the key actors in global social policy, such as the market, the state and international organisations, and Part Three provides an opportunity to explore some specific key issues of global importance, such as employment and migration, demographic change and global poverty. Adding considerable momentum to the movement away from a reductionist, nationally focused study of the discipline, *Global Social Policy* opens up new and stimulating discussions and provides a fresh framework for the study of human well-being. Using policy examples from areas around the world to provide a truly international scope, it is an essential read for students studying at all levels.

Assured Destruction David Bath, 2020-03-15 *Assured Destruction: Building the Ballistic Missile Culture of the U.S. Air Force* documents the rapid development of nuclear ballistic missiles in the United States and their equally swift demise after the Cuban Missile Crisis, revealing how these drastic changes negatively influenced both the Air Force and the missile community. David W. Bath contends that the struggle to create and control nuclear ballistic missiles threatened both the dominance of the United States during an intensifying Cold War and the strategic airpower mission of the newly created Air Force. The book details the strenuous efforts required to create and prepare a missile arsenal before the Cuban Missile Crisis, which occurred only five years after the first missile was declared operational. It uses the personal recollections of former missileers and the

professional military education theses they wrote to highlight some of the concerns that have faced the missileers who operated and worked on these powerful weapons from 1957 to the present The highlight of the book however is the personal stories of the missileers who served during the missile crisis revealing the efforts that they went to in order to prepare these unique and untried weapons for what many thought might become the third world war Arab Dawn Bessma Momani, 2015-11-26 In the West news about the Middle East is dominated by an endless stream of reports and commentary about civil war sectarian violence religious extremism and economic stagnation But do they tell the full story For instance who knew that university enrolment in the war torn Palestinian territories exceeds that of Hong Kong or that more than a third of Lebanese entrepreneurs are women Change is on its way in the Middle East argues Bessma Momani and its cause is demographic Today one in five Arabs is between the ages of fifteen and twenty four Young optimistic and increasingly cosmopolitan their generation will shape the region's future Drawing on interviews surveys and other research conducted with young people in fifteen countries across the Arab world Momani describes the passion for entrepreneurship reform and equality among Arab youth With insightful political analysis based on the latest statistics and first hand accounts Arab Dawn is an invigorating study of the Arab world and the transformative power of youth The Rhetorical Invention of America's National Security State Marouf Hasian Jr., Sean Lawson, Megan D. McFarlane, 2015-07-29 The Rhetorical Invention of America's National Security State examines the rhetoric and discourse produced by and constitutive of America's national security state Hasian Lawson and McFarlane illustrate the importance of rhetoric to the expansion of the American national security state in the post 9 11 era through their examination of the global war on terrorism enhanced interrogation techniques drone crew stress activities of Edward Snowden rise of Special Forces and popular representations of counterterrorism The coauthors contend this expansion was not the result of lone imperial executives or a nefarious state within a state but was co produced by elite and non elite Americans alike who not only condoned but also in many cases demanded the expansion of the national security state This work will be of interest to scholars in communication studies and political science *MAPPING CONFLICT IN CHITTAGONG HILL TRACTS 1997-2014* Zahid ul Arefin Choudhury, 2020-04-27 The issue of the Chittagong Hill Tracts is as divisive as the region itself At one end there are tales of woe how the original inhabitants of the region are being evicted from their land through violence and trickery their marginalization and elimination of their traditional way of life simultaneously while it is being exoticized for tourism These accounts however paint a static picture where the members of these ethnic groups are victims always and without any agency Consequently these accounts fail to hold up in front of close examination and invites counter opinion rage that the Bengali and other ethnicities of CHT are prevented from living in harmony by disruptive elements within the society that the oppression and repression of the hill peoples are made up stories that feed national and international conspiracies In Conflict Mapping in the Chittagong Hill Tracts researchers from the Department of Peace and Conflict Studies at the University of Dhaka cut through

this fog of confusion by presenting dispassionate unornamented data With the help of original data and systematic analysis they show how the social life of CHT is marked by deep polarization both within and across the ethnic divide how it is beset by real and perceived accounts of discrimination and by lack of confidence on state agencies and the rule of law They also investigate the trajectory of major cases of violence in the region in the past two decades and reveal that these have a common escalation pattern with various points marked by missed opportunities for prevention Based on a study that draws from a large survey of a cross section of people from 8 of the most crime prone Upazilas of the region semi structured interview of selected elites and analysis of the dynamics of 14 incidents of large scale violence between 1997 and 2014 this book aims at initiating a healthy constructive conversation on the issue It challenges long held prejudices common sense beliefs and unsubstantiated propaganda By offering the lens of social science the book invites readers with well meaning but vague opinions as well as consumers of zealous and spoon fed ideas to form informed and nuanced opinion *Governomics* Ian McAuley, Miriam Lyons, 2015-05-01 People have good reason to demand decent public education and a well funded health system to yearn for an economy that doesn't trash the environment or for a smaller gap between rich and poor Almost without exception sound economics is on their side We've grown used to public debates that pit people and the planet against an abstract distorted image of the economy but it doesn't have to be this way *Governomics* shows that an emaciated state is bad for business and that standing up for government means standing up for a public sector that truly serves the public Everybody knows governments are wasteful incompetent and a drag on the economy But if you're not sure that's true read this book Ross Gittins Sydney Morning Herald and The Age *Governomics* shows that a market economy can only work when sustained by a strong and active public sector It will inject some much needed economic sanity into conversations on the role of government in Australia John Quiggin Australian Research Council Laureate Fellow University of Queensland **The Continuing Imperialism of Free Trade** Jo Grady, Chris Grocott, 2018-10-08 In 1953 John Gallagher and Ronald Robinson shook the foundations of imperial history with their essay *The Imperialism of Free Trade* They reshaped how historians saw the British empire focussing not on the red bits on the map and the wishes of policy makers in London but rather on British economic and political influence globally Expanding on this analysis this volume provides an examination of imperialism which brings the reader right up to the present This book offers an innovative assessment and analysis of the history and contemporary status of imperial control It does so in four parts examining the historical emergence and traditions of imperialism the relationships between the periphery and the metropolitan the role of supranational agencies in the extension of imperial control and how these connect to financialisation and international political economy The book provides a dynamic and unique perspective on imperialism by bringing together a range of contributors both established and up and coming scholars activists and those from industry from a wide range of disciplines and backgrounds In providing these authors a space to apply their insights this engaging volume sheds light on the practical implications of imperialism for the

contemporary world With a broad chronological and geographical sweep this book provides theoretical and empirical engagements with the nature of imperialism and its effects upon societies It will be of great interest to a broad range of disciplines across the humanities and social sciences especially those working in History Politics and Management and Organisation Studies

How Data Happened: A History from the Age of Reason to the Age of Algorithms Chris Wiggins, Matthew L. Jones, 2023-03-21 Fascinating Jill Lepore The New Yorker A sweeping history of data and its technical political and ethical impact on our world From facial recognition capable of checking people into flights or identifying undocumented residents to automated decision systems that inform who gets loans and who receives bail each of us moves through a world determined by data empowered algorithms But these technologies didn't just appear they are part of a history that goes back centuries from the census enshrined in the US Constitution to the birth of eugenics in Victorian Britain to the development of Google search Expanding on the popular course they created at Columbia University Chris Wiggins and Matthew L Jones illuminate the ways in which data has long been used as a tool and a weapon in arguing for what is true as well as a means of rearranging or defending power They explore how data was created and curated as well as how new mathematical and computational techniques developed to contend with that data serve to shape people ideas society military operations and economies Although technology and mathematics are at its heart the story of data ultimately concerns an unstable game among states corporations and people How were new technical and scientific capabilities developed who supported advanced or funded these capabilities or transitions and how did they change who could do what from what and to whom Wiggins and Jones focus on these questions as they trace data's historical arc and look to the future By understanding the trajectory of data where it has been and where it might yet go Wiggins and Jones argue that we can understand how to bend it to ends that we collectively choose with intentionality and purpose

Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Applied and Theoretical Statistics, Committee on Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions, 2017-02-06 The Office of the Under Secretary of Defense Personnel Readiness referred to throughout this report as P R is responsible for the total force management of all Department of Defense DoD components including the recruitment readiness and retention of personnel Its work and policies are supported by a number of organizations both within DoD including the Defense Manpower Data Center DMDC and externally including the federally funded research and development centers FFRDCs that work for DoD P R must be able to answer questions for the Secretary of Defense such as how to recruit people with an aptitude for and interest in various specialties and along particular career tracks and how to assess on an ongoing basis service members career satisfaction and their ability to meet new challenges P R must also address larger scale questions such as how the current realignment of forces to the Asia Pacific area and other

regions will affect recruitment readiness and retention While DoD makes use of large scale data and mathematical analysis in intelligence surveillance reconnaissance and elsewhere exploiting techniques such as complex network analysis machine learning streaming social media analysis and anomaly detection these skills and capabilities have not been applied as well to the personnel and readiness enterprise Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions offers and roadmap and implementation plan for the integration of data analysis in support of decisions within the purview of P R

Fake Science Austin Ruse,2017-07-17 If you listen to any political argument you re eventually bound to hear something like The science is settled on this Or Just look at the statistics Or There have been studies that say You d think we were living in the golden age of science and reason But the truth is far more sinister says Austin Ruse We re actually living in the age of the low information voter easily mislead by all too convincing false statistics and studies In Fake Science Ruse debunks so called facts used to advance political causes one after the other revealing how poorly they stand up to actual science

Free Speech and Unfree News Sam Lebovic,2016-03-14 Does America have a free press Many who say yes appeal to First Amendment protections against censorship Sam Lebovic shows that free speech on its own is not sufficient to produce a free press and helps us understand the crises that beset the press amid media consolidation a secretive national security state and the daily newspaper s decline

Wonder City Lynn Ellsworth,2025-05-06 Reimagining our cities for a sustainable and human centric future In her groundbreaking book Wonder City Lynn Ellsworth delves deep into the heart of modern urban life casting a critical eye on the transformative changes sweeping through cities like New York This compelling journey into the world of urban development goes beyond the usual narrative serving as a passionate call to action that encourages readers to actively participate in shaping the future of their cities Ellsworth expertly navigates through complex themes such as affordable housing urban planning historic preservation and architecture With a focus on major cities undergoing significant transformations Wonder City offers an insightful examination of the challenges and opportunities that define contemporary urban life At the core of this engaging narrative is a striking critique of the real estate industry s influence over urban landscapes Ellsworth reveals how historic and culturally rich urban settings are increasingly being overshadowed by the rise of impersonal glass towers a trend she argues is driven by the industry s grip on politicians and technocrats This analysis is both eye opening and unsettling shedding light on the forces reshaping our urban environments Wonder City is more than a critique however Ellsworth provides a pragmatic blueprint for revitalizing urban spaces She champions the need for affordable housing sustainable urban planning and architecture that respects and enhances the human experience Her arguments challenge the prevailing economic theories behind housing supply and question the architectural ideologies that often justify the demolition of historic urban assets This book is an essential read for urban planners policymakers and anyone interested in the future of urban living Ellsworth s clear accessible insights into complex issues make Wonder City a vital contribution to the discourse on urban development appealing to a broad audience

that cares about the dynamics and future of city life **Theses on the Metaphors of Digital-Textual History** Martin Paul Eve, 2024-07-16 Digital spaces are saturated with metaphor we have pages sites mice and windows Yet in the world of digital textuality these metaphors no longer function as we might expect Martin Paul Eve calls attention to the digital textual metaphors that condition our experience of digital space and traces their history as they interact with physical cultures Eve posits that digital textual metaphors move through three life phases Initially they are descriptive Then they encounter a moment of fracture or rupture Finally they go on to have a prescriptive life of their own that conditions future possibilities for our text environments even when the metaphors have become untethered from their original intent Why is whitespace white Was the digital page always a foregone conclusion Over a series of theses Eve addresses these and other questions in order to understand the moments when digital textual metaphors break and to show us how it is that our textual softwares become locked into paradigms that no longer make sense Contributing to book history literary studies new media studies and material textual studies *Theses on the Metaphors of Digital Textual History* provides generative insights into the metaphors that define our digital worlds *An Age of Accountability* John L. Rury, 2023-10-13 *An Age of Accountability* highlights the role of test based accountability as a policy framework in American education from 1970 to 2020 For more than half a century the quest to hold schools and educators accountable for academic achievement has relied almost exclusively on standardized assessment The theory of change embedded in almost all test based accountability programs held that assessment with stipulated consequences could lead to major improvements in schools This was accomplished politically by proclaiming lofty goals of attaining universal proficiency and closing achievement gaps which repeatedly failed to materialize But even after very clear disappointments no other policy framework has emerged to challenge its hegemony The American public today has little confidence in institutions to improve the quality of goods and services they provide especially in the public sector As a consequence many Americans continue to believe that accountability remains a vital necessity even if educators and policy scholars disagree **The Routledge Handbook of Memory Activism** Yifat Gutman, Jenny Wüstenberg, 2023-02-15 This Handbook is the first systematic effort to map the fast growing phenomenon of memory activism and to delineate a new field of research that lies at the intersection of memory and social movement studies From Charlottesville to Cape Town from Santiago to Sydney we have recently witnessed protesters demanding that symbols of racist or colonial pasts be dismantled and that we talk about histories that have long been silenced But such events are only the most visible instances of grassroots efforts to influence the meaning of the past in the present Made up of more than 80 chapters that encapsulate the rich diversity of scholarship and practice of memory activism by assembling different disciplinary traditions methodological approaches and empirical evidence from across the globe this Handbook establishes important questions and their theoretical implications arising from the social political and economic reality of memory activism Memory activism is multifaceted takes place in a variety of settings and has diverse outcomes but it is always crucial

to understanding the constitution and transformation of our societies past and present This volume will serve as a guide and establish new analytic frameworks for scholars students policymakers journalists and activists alike **Designing**

Ergonomic, Safe, and Attractive Mining Workplaces Joel Lööw,Bo Johansson,Eira Andersson,Jan Johansson,2018-11-12

The mining industry has experienced important improvements with regard to its safety record and work environment But there is still room for further improvement and the mining industry now faces the challenge of securing a future workforce The current workforce is aging and mining work increasingly requires a more qualified workforce Designing Ergonomic Safe and Attractive Mining Workplaces seeks to give an understanding of what must be considered in the design of mining workplaces By reviewing and discussing the historic and current development of the mining industry as well as problems related to the safety ergonomics and attractiveness of mining workplaces it demonstrates that the challenges facing the mining industry often need to be solved on a case to case basis The processes through which these issues are managed are of significant importance To facilitate a proactive approach the book covers the principles of systematic work environment management together with examples of methods for risk management and work environment monitoring It introduces a systematic and iterative design and planning method for the mining industry This method acknowledges that all relevant stakeholders must be able to influence the design of ergonomic safe and attractive mining workplaces Features Takes a holistic and sociotechnical approach to current and future problems of the mining industry which normally are dealt with in isolation or through technology Reviews historic current and future issues in the mining industry with regards to workplace attractiveness health safety mechanization automation and work organization Provides several examples of these issues and attempts to address them successfully and unsuccessfully Covers the principles of systematic work environment management together with examples of methods for risk management and work environment monitoring for pro actively dealing with work environment issues Introduces a systematic and iterative design and planning method for the mining industry that aims to avoid problems of traditional planning approaches and increase stakeholder and employee participation **Risk**

Management in Life-Critical Systems Patrick Millot,2014-10-10 Risk management deals with prevention decision making action taking crisis management and recovery taking into account the consequences of unexpected events The authors of this book are interested in ecological processes human behavior as well as the control and management of life critical systems which are potentially highly automated Three main attributes define life critical systems i e safety efficiency and comfort They typically lead to complex and time critical issues and can belong to domains such as transportation trains cars aircraft energy nuclear chemical engineering health telecommunications manufacturing and services The topics covered relate to risk management principles methods and tools and reliability assessment human errors as well as system failures socio organizational issues of crisis occurrence and management co operative work including human machine cooperation and CSCW computer supported cooperative work task and function allocation authority sharing interactivity situation awareness

networking and management evolution and lessons learned from Human Centered Design **His Name Is George Floyd (Pulitzer Prize Winner)** Robert Samuels, Toluse Olorunnipa, 2024-05-07 WINNER OF THE 2023 PULITZER PRIZE IN NONFICTION WINNER OF THE DAYTON LITERARY PEACE PRIZE FINALIST FOR THE NATIONAL BOOK AWARD AND LOS ANGELES TIMES BOOK PRIZE FINALIST FOR THE J ANTHONY LUKAS PRIZE A BCALA 2023 HONOR NONFICTION AWARD WINNER A landmark biography by two prizewinning Washington Post reporters that reveals how systemic racism shaped George Floyd's life and legacy from his family's roots in the tobacco fields of North Carolina to ongoing inequality in housing education health care criminal justice and policing telling the story of how one man's tragic experience brought about a global movement for change It is a testament to the power of His Name Is George Floyd that the book's most vital moments come not after Floyd's death but in its intimate unvarnished and scrupulous account of his life Impressive New York Times Book Review Editors Choice Since we know George Floyd's death with tragic clarity we must know Floyd's America and life with tragic clarity Essential for our times Ibram X Kendi author of How to Be an Antiracist A much needed portrait of the life times and martyrdom of George Floyd a chronicle of the racial awakening sparked by his brutal and untimely death and an essential work of history I hope everyone will read Henry Louis Gates Jr author of The Black Church This Is Our Story This Is Our Song The events of that day are now tragically familiar on May 25 2020 George Floyd became the latest Black person to die at the hands of the police murdered outside of a Minneapolis convenience store by white officer Derek Chauvin The video recording of his death set off the largest protest movement in the history of the United States awakening millions to the pervasiveness of racial injustice But long before his face was painted onto countless murals and his name became synonymous with civil rights Floyd was a father partner athlete and friend who constantly strove for a better life His Name Is George Floyd tells the story of a beloved figure from Houston's housing projects as he faced the stifling systemic pressures that come with being a Black man in America Placing his narrative within the context of the country's enduring legacy of institutional racism this deeply reported account examines Floyd's family roots in slavery and sharecropping the segregation of his schools the overpolicing of his community amid a wave of mass incarceration and the callous disregard toward his struggle with addiction putting today's inequality into uniquely human terms Drawing upon hundreds of interviews with Floyd's closest friends and family his elementary school teachers and varsity coaches civil rights icons and those in the highest seats of political power Washington Post reporters Robert Samuels and Toluse Olorunnipa offer a poignant and moving exploration of George Floyd's America revealing how a man who simply wanted to breathe ended up touching the world **Resources in Education** ,1984

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