



GR 11 Life Sciences Paper 2 scope

- 1 November 2024 -

The following framework outlines the detailed assessment of topics covered in the examination. Teachers are advised to review it with learners to ensure full understanding and effective preparation.

Biological terms: Ecosystems, ecology, environment, ecological niche, Interspecific competition, Intraspecific competition, Competitive exclusion, population density, population size, mortality, natality, chordate, cephalization, immigration, emigration, predator, prey, parasitism, resource partitioning, competition, parasitism, mutualism, commensalism, census, eukaryotic, procaryotic, alien plant species, monocultures, poaching, culling, eutrophication, , thallus, , indigenous plants, global warming, carbon footprint, food security , biodiversity , ozone, rhizoids, rhizome , pistil, invertebrates, specie, population, vaccination, antibiotics, pathogen, sexual reproduction	
Micro -organisms Structure and characteristics of: <ul style="list-style-type: none"> - Viruses - Bacterium - Fungi - Protista 	Biodiversity in plants - Identify the different plant groups <ul style="list-style-type: none"> - The presents or absence of the key features of the four groups of plants: - Vascular tissues - True leaves - Seed or spore - Fruit - Water for reproduction # Distinguish between the gametophyte generation and sporophyte generation in Bryophytes and Pteridophytes
Conditions in which bread mould grow	
Explain what a heterotrophic organism is	Structure of a flower
The role that Fungi plays in the environment	Adaptions for wind pollinations
Malaria - What cause malaria	Advantages of sexual reproduction
- Symptoms of malaria	
- How can you prevent malaria	
Biodiversity in Animals	Population Ecology
Key features of the six Phyla: <ul style="list-style-type: none"> - Symmetry - Number and names of tissues layers - Number of openings in gut - Coelom - Cephalisation - Blood systems 	<ul style="list-style-type: none"> - Factors that influence population size - Logistic and geometric growth curves and their phases - Predator-prey relation # Be able to determine which graph indicate the prey/predator and why <ul style="list-style-type: none"> - Determine the size of a population: Quadrant method and mark/capture

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Marcel A. Müller



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Routledge Handbook of Asian Cities Richard Hu, 2023-05-31 This handbook provides the most comprehensive examination of Asian cities developed and developing large and small and their urban development Investigating the urban challenges and opportunities of cities from every nation in Asia the handbook engages not only the global cities like Shanghai Tokyo Singapore Seoul and Mumbai but also less studied cities like Dili Mal Bandar Seri Begawan Kabul and Pyongyang The handbook discusses Asian cities in alignment to the United Nations New Urban Agenda and Sustainable Development Goals in order to contribute to global policy debates In doing so it critically reflects on the development trajectories of Asian cities and imagines an urban future in Asia and the world in the post sustainable post global and post pandemic era Presenting 43 chapters of original insightful research this book will be of interest to scholars practitioners students and general readers in the fields of urban development urban policy and planning urban studies and Asian studies Nimble Baba

Prasad, 2015-04-24 The world today can be best described by one word turbulence As change rages all around how can you as an individual or as an organization take advantage of unexpected opportunities and succeed in difficult circumstances In a book that challenges traditional notions of strategy Baba Prasad draws on his research at some of the world's best business schools to show how intelligence can help you and your business navigate this maelstrom The Intelligences Framework presented in Nimble goes beyond the common management concept of agility it presents an immensely practical and hands on approach for companies and individuals to develop five kinds of intelligences and apply them in different settings for maximum benefit Bridging strategy leadership and innovation and with vivid illustrations Nimble provides a path breaking assessment methodology and a systematic four step approach that every company and individual can use to lead amid turbulence *Shared Governance for Sustainable Working Landscapes* Timothy M. Gieseke, 2016-08-05 Sustaining our

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 is 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 **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 Politics and Crisis Management of Animal Health Security John Connolly, 2016-03-09 The Politics and Crisis Management of Animal Health Security addresses the 2001 foot and mouth epidemic in the United Kingdom one of if not the most significant crises ever to face the UK farming industry Underpinned by interviews with politicians and bureaucrats and with significant primary documentary analysis the book shows that the crisis was a critical juncture in how disease outbreaks have been planned and managed ever since The author explores how this event affected policy and governance arrangements for managing subsequent disease induced threats such as avian influenza and bovine TB and concludes by considering the temporality of lesson learning by the UK government including the current and future challenges associated with managing incongruent risks e g flood protection swine flu and Ebola This book provides students of public policy and administration with a significant illustration of how key concepts and analytical lenses from public policy can be applied to the study of the contours of practical policy change

Yearbook of International Organizations
2014-2015 (Volume 4) Union Of International Associations, Union of International Associations, 2014-09-17 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Providing both an international organizations and research bibliography Volume 4 cites over 46 000 publications and information resources supplied by international organizations and provides nearly 18 000 research citations under 40 subject headings This volume also includes a research bibliography on international organizations and transnational associations

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