



GRADE 10 LIFE SCIENCES MARCH TEST

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-D) next to the **QUESTION NUMBER** (1.1.1-1.1.4) from your notebook. Example: 1.1.1-2.

On 10 January conducted an investigation over a period of time (only afternoon at times) to determine the wind speed at various altitudes.

Answer question 1.1.1-1.1.4 using the above-mentioned statement.

- 1.1.1 Which of the following options would be the independent variable?
- Wind speed
 - Altitude above sea level
 - The weather
 - Location of the
- 1.1.2 Which of the following options would be considered the dependent variable?
- Wind speed
 - Altitude above sea level
 - The weather
 - Location of the
- 1.1.3 Which of the following options would be a fixed variable?
- Wind speed
 - Altitude above sea level
 - The weather
 - Location of the
- 1.1.4 The following is **NOT** an abiotic factor in the ecosystem of a grasshopper.
- The climate
 - The grasshopper's food source
 - The grasshopper's habitat
 - The grasshopper's colour

- 1.1.5 Which of the following is the most appropriate example of a population?
- All organisms in a pond
 - All the grasshoppers in a field
 - All the grasshoppers in a field
 - All the grasshoppers in a field

[20-10]

- 1.2 Give the correct **BIOLOGICAL TERM** for each of the following statements. Write **ONLY** the **TERM** next to the **QUESTION NUMBER** (1.2.1-1.2.4).

- 1.2.1 A group of individuals of the same species living in the same area.
- 1.2.2 A group of individuals of the same species living in the same area.
- 1.2.3 A group of individuals of the same species living in the same area.
- 1.2.4 A group of individuals of the same species living in the same area.

[20-10]

- 1.3 Indicate whether each of the statements in **COLUMN I** applies to **A ONLY**, **B ONLY**, **BOTH A and B** or **NONE** of the items in **COLUMN II**. Write **A ONLY**, **B ONLY**, **BOTH A and B** or **NONE** next to the **QUESTION NUMBER** (1.3.1-1.3.3).

	COLUMN I	COLUMN II
1.3.1	Location of the Savanna biome in South Africa	A. Climate
1.3.2	Climate refers to	B. Weather
1.3.3	Stated that the wind speed is the dependent variable in the experiment	A. Wind speed

[20-10]

TOTAL SECTION A = 20

Life Science Grade1paper2014 Term4

Craig Fox, Sim B. Sitkin



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Behavioral Science & Policy: Volume 2, Issue 1 Craig Fox, Sim B. Sitkin, 2016-11-22 The success of nearly all public and private sector policies hinges on the behavior of individuals groups and organizations Today such behaviors are better understood than ever thanks to a growing body of practical behavioral science research However policymakers often are unaware of behavioral science findings that may help them craft and execute more effective and efficient policies The pages of this new journal will become a meeting ground a place where scientists and non scientists can encounter clearly described behavioral research that can be put into action By design the scope of BSP is broad with topics spanning health care financial decisionmaking energy and the environment education and culture justice and ethics and work place practices Contributions will be made by researchers with expertise in psychology sociology law behavioral economics organization science decision science and marketing The journal is a key offering of the Behavioral Science Policy Association in partnership with the Brookings Institution The mission of BSPA is to foster dialog between social scientists policymakers and other practitioners in order to promote the application of rigorous empirical behavioral science in ways that serve the public interest BSPA does not advance a particular agenda or political perspective The first issue s contents follow Behavioral Science Policy vol 2 no 1 Table of Contents Editors Note Spotlight Pre Kindergarten Interventions American Policy on Early Childhood Education Development Many Programs Great Hopes Modest Prospects Ron Haskins Evidence for the Benefits of State Prekindergarten Programs Myth Misrepresentation Dale C Farran Mark W Lipsey Reforming Head Start for the 21st Century A Policy Prescription Sara Mead Ashley LiBetti Mitchel Home Visiting Programs Four Evidence Based Lessons for Policymakers Cynthia Osborne Launching Preschool 2 0 A Road Map to High Quality Public Programs at Scale Christina Weiland A 10 Year Strategy of Increased Coordination Comprehensive Investments in Early Child Development Ajay Chaudry Jane Waldfogel Reimagining Accountability in K 12 Education Brian P Gill Jennifer S Lerner Paul Meosky Featured Topic Healthy Through Habit Interventions for Initiating Maintaining Health Behavioral Change Wendy Wood David Neal Making the Truth Stick the Myths Fade Lessons from Cognitive Psychology Norbert Schwarz Eryn Newman William Leach Editorial Policy

Unlocking Multilingual Learners' Potential Diane Staehr Fenner, Sydney Snyder, Meghan Gregoire-Smith, 2024-01-10 Bring classroom content to life for multilingual learners In this eagerly anticipated revision of their bestselling book authors Diane Staehr Fenner Sydney Snyder and Meghan Gregoire Smith share dynamic research backed strategies that every educator of multilingual learners MLs can add to their repertoire Including more of what educators loved from the first edition authentic classroom examples a wide variety of research based instructional strategies and practical tools to implement across grade levels and content areas this is the ultimate practical guide to unlocking the potential of MLs in K 12 classrooms With fresh graphics and eye catching colors this thoroughly revised edition also includes Considerations for newcomers and students with interrupted or no formal education SLIFE An added chapter on building scaffolded instruction

and peer learning opportunities into MLs academic reading and writing activities Additional opportunities for reflection and application A new unit planning template aligned with research based instructional practices including a completed example unit Situated within five core beliefs that frame the must haves for MLs equitable and excellent education Unlocking Multilingual Learners Potential is a guide to research based practices and a toolbox of strategies every educator can implement to make content accessible and increase language proficiency among MLs **Children and Companion**

Animals: Psychosocial, Medical, and Neurobiological Implications Andrea M. Beetz, Lynette A. Hart, Brinda I. Jegatheesan, Naoko Koda, 2018-08-16 Children and companion animals seem to have a natural affinity towards each other Most children desire a relationship with their own companion animals or at least demonstrate an interest to interact with animals in general Living with companion animals or interacting with animals may have psychosocial neurobiological or medically relevant effects on typically developing children and juveniles as well as those with diverse and special needs In this eBook we present several articles addressing the relationships between children juveniles and animals in different countries including Austria Germany Jamaica Japan the United Kingdom and the United States Three articles discuss approaches in animal assisted education including animal keeping and animal assisted interventions in schools and an experimental study investigating immediate effects of dogs on reading competence and accompanying stress reactions with cortisol and behavior Other articles address topics involving children and their companion animals including dog walking by children and juveniles risks of dog bites by the family dog selection of pet dogs for families with a child with autism spectrum disorder ASD and the relationships that children with ASD have with their family cats The interactions between children juveniles and animals addressed in this eBook provide new insights into some scarcely investigated themes and underline the significance of animals in children s lives *The Complete Book of Colleges, 2017 Edition* Princeton Review, 2016-07 The

MEGA GUIDE to 1 355 COLLEGES AND UNIVERSITIES No one knows colleges better than The Princeton Review Inside The Complete Book of Colleges 2017 Edition you ll find meticulously researched information that will help you narrow the search for the best college for you Each of the 1 355 user friendly profiles answers your questions including How much are tuition and other student fees and costs What types of financial aid are available and when are the applications due What do admissions officers most look for in test scores and recommendations Which majors are the most popular and have the highest enrollment What is the housing like and how accessible is technology on campus What are the key campus organizations athletics and student activities How selective is the school Plus Indexes based on cost selectivity and size that will help you narrow your search Get a leg up on your college search with this easy to use comprehensive and savvy

guidebook from the experts at The Princeton Review **Economics of Means-Tested Transfer Programs in the United States, Volume II** Robert A. Moffitt, 2016-11-15 Few programs in the United States are as controversial as those that constitute the country s safety net which in the past few decades have been broadly transformed and substantially increased

in size and scope Many of these programs were discussed in the popular NBER book Means Tested Transfer Programs in the United States published in 2003 This new book sheds light on changes in programs and the results of new research since the first volume Each volume of Economics of Means Tested Transfer Programs in the United States explores four programs in particular This second volume looks into the less standard or newer transfer programs which include Supplemental Security Income Low Income Housing Policy Employment and Training Programs and Early Childhood Education Both volumes of Means Tested Transfer Programs in the United States will constitute a unique single source reference containing analysis of the origins successes failures and developments in the most important recent means tested transfer programs in the United States

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Environmental Engineering V Malgorzata Pawlowska, Lucjan Pawlowski, 2018-10-26 Poland like other post communist countries is undergoing a transformation into a capitalist system This transformation affects the country in many ways economic social psychological and also ecological Ecological problems are strongly connected with the political economic and psychological inheritance of the past as well as with changes in the post communist society In order to understand these problems it is necessary to consider the following issues the geographic

situation of Poland the political transformations that occurred after World War II forced development of heavy industry combined with neglect of its effects on the environment and the economic problems The three main goals of Environmental Engineering V are I to assess the state of scientific research in various areas of environmental engineering II to evaluate organizational technical and technological progress in contributing to ecological security and III to determine the place of environmental engineering in sustainable development taking into account political and economic conditions Environmental Engineering V is of interest for academics engineers and professionals involved in environmental engineering seeking solutions for environmental problems in emerging new democracies especially those who plan to participate in numerous projects sponsored by the European Union After Piketty Heather Boushey,J. Bradford DeLong,Marshall

Steinbaum,2017-05-08 Are Thomas Piketty s analyses of inequality on target Where should researchers go from here in exploring the ideas he pushed to the forefront of global conversation In After Piketty a cast of economists and other social scientists tackle these questions in dialogue with Piketty in what is sure to be a much debated book in its own right **The College Handbook** ,1988 *El-Hi Textbooks and Serials in Print*, 1995 R R Bowker Publishing,1995-02 **Index to Media and Materials for the Mentally Retarded, Specific Learning Disabled, Emotionally Disturbed** National Information Center for Special Education Materials,1978 Biological Abstracts Jacob Richard Schramm,1927 Guide to Four-Year Colleges 1988 Peterson,1987-07 **The Connecticut School Journal** ,1874 **National Budget Framework Paper for the Financial Years ...** Uganda,2015 *The Breeder's Gazette* ,1888 **Normal Instructor** ,1966 New Breeder's Gazette ,1888 **Children's Books in Print** R R Bowker Publishing,Bowker,1999-12 **Amazing Stories** ,1927

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web green plants are green because they contain a pigment called chlorophyll as in the absorption spectra chlorophyll absorbs light in the red long wavelength and the blue short wavelength regions of the visible light spectrum the green light is not absorbed but reflected making the plant appear green an absorption spectrum shows all the light

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web pigments absorb specified wavelengths of visible light to provide the energy required for photosynthesis appendix a chlorophyll is necessary for photosynthesis but accessory pigments collect and transfer energy to chlorophyll although pigments absorb light the wavelengths of light that are not absorbed by

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web in the diagram below you can see the absorption spectra of three key pigments in photosynthesis chlorophyll a

chlorophyll b and β carotene the set of wavelengths that a pigment doesn't absorb are reflected and the reflected light is what we see as color

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web learning objectives differentiate between chlorophyll and carotenoids absorption of light light energy initiates the process of photosynthesis when pigments absorb the light organic pigments have a narrow range of energy levels that they can absorb

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web the graph in figure 8 14 shows the absorption spectra for chlorophyll a chlorophyll b and a type of carotenoid pigment called β carotene which absorbs blue and green light notice how each pigment has a distinct set of peaks and troughs revealing a highly specific pattern of absorption

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web sep 9 2023 chlorophyll is a pigment present within plants chlorophyll is the key pigment produced by the chloroplasts within the plant cell which initiates photosynthesis the absorption spectrum of chlorophyll is in the visible range from 400 to 700nm this begins with the 400nm meter region where the light is blue to the 700nm region where

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web arrange the colors in the absorption spectrum of chlorophyll in order of their visibility put the most visible color first green yellow orange red violet blue 9 12 below is a bar graph of the percentage of light energy reflected by chlorophyll it was derived from the chlorophyll absorption spectrum

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web chlorophyll a is the main photosynthetic pigment and it is found in chloroplasts in plants outline the difference in absorption of red green and blue light by plants plants predominantly absorb red and blue light but reflect green light

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web dec 2 2020 significant asymmetry found between the high resolution qy emission and absorption spectra of chlorophyll a is explained providing basic information needed to understand photosynthetic exciton transport and photochemical reactions

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web of blue and red light of the split spectrum a first action spectrum of photosynthesis was thus described it resembles roughly the absorption spectra of chlorophyll a and b discussed in section 13 4 by the middle of the nineteenth century the key features of plant photosynthesis were known namely that plants could use light energy

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web relate a photon s energy to its wavelength the energy content of a photon is inversely proportional to the wavelength of light as energy of the photon increases the wavelength decreases and vice versa relate the chlorophyll absorption spectra to the photosynthetic action spectrum

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