LIFE SCIENCES 2022

GRADE 10

Date:					
Charles -					

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,

2014 Life Science Memorandum For End Of Year Exam

Jean Cornier, Cornelia M. Keck, Marcel Van de Voorde

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Budget of the United States Government United States. Office of Management and Budget, 2014 Appendix. Budget of the United States Government, Fiscal Year 2016 Executive Office of the President, 2015-02-02 Officially released on February 2 2015 As one of the reference volumes of the FY2016 Budget request of the President the popular Fiscal Year Budget Appendix volume presents detailed financial information on individual programs Federal agencies and appropriation accounts that constitute the budget in tables and graphs Includes for each Government department and agency the text of proposed appropriations language budget schedules for each account new legislative proposals and explanations of the work to be performed and the funds needed and proposed general provisions applicable to the appropriations of entire agencies or groups of agencies Federal agency personnel policy makers think tank advocates lawmakers media organizations and others interested in a line item by line item view of the President's proposed Fiscal year Budget will want this resource in their personal library collection Public and academic libraries will want to make this annual reference product available for the general public in their Government collections Students studying Public Finance political scientists and researchers will appreciate this detailed information with authoritative data legends presented in tables and graphs United States Government United States. Office of Management and Budget, 2015 Budget of the U.S. Government, **Appendix**, 2013-04-10 Presents detailed information on individual programs and appropriation accounts that constitute the budget Includes for each Government department and agency the text of proposed appropriations language budget schedules for each account new legislative proposals and explanations of the work to be performed and the funds needed and proposed general provisions applicable to the appropriations of entire agencies or groups of agencies Appendix, Budget of the United States Government, Fy 2015 Executive Office Of The President, Office of Office of Management and Budget (U.S.),2014-04-15 Presents detailed information on individual programs and appropriation accounts that constitute the budget Includes for each Government department and agency the text of proposed appropriations language budget schedules for each account new legislative proposals and explanations of the work to be performed and the funds needed and proposed general provisions applicable to the appropriations of entire agencies or groups of agencies Preventing Waste, Fraud, Abuse, and Mismanagement in Homeland Security United States. Congress. House. Committee on Homeland Security, 2014

Nanocosmetics Jean Cornier, Cornelia M. Keck, Marcel Van de Voorde, 2019-06-14 This book addresses the application of nanotechnology to cosmetics Edited by three respected experts in the field the book begins with a general overview of the science behind cosmetics and skin care today and of the status quo of nanotechnology in cosmetics Subsequent chapters provide detailed information on the different nanoparticles currently used in cosmetics the production and characterization of nanoparticles and nanocosmetics and regulatory safety and commercialization aspects Given its scope the book offers an indispensable guide for scientists in academia and industry technicians and students as well as a useful resource for decision

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zaza s green dress the music the beautiful white star on her finger no they can t steal it the train comes and the men get on marcel pulls down his hat and follows them half an hour later he gets off again at la mouette station but there are hundreds of people and marcel loses the two men then he sees an old mouse excuse me he says

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on it marcel can see lots of photographs boxes and perfume bottles he runs across the floor and up one leg of the table now he thinks it s time to take off the white star in the morning zaza is going to be very then marcel stops oh no he cannot take the ring off he pulls and pulls but nothing happens

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