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Life sciences

Grade 11

Examiner: Ms N. Harms

Date: MARCH 2024

Time: 1 hour 30 minutes

Total: 75

SECTION A

QUESTION 1

1.1 Different options are given as possible answers for the following questions. Choose the correct answer and write only the letter (A to D) next to the question number (1.1.1 to 1.1.5) on the FOLIO PAPER e.g. 1.1.1 E.

1.1.1 An organism consisting of only one cell.

- A. Multicellular
- B. Unicellular
- C. Autotrophic
- D. Heterotrophic

1.1.2 An organism that harbours a parasite.

- A. Pathogenic
- B. Nucleoid
- C. Acellular
- D. Host

1.1.3 Viruses can infect bacteria, protists, plants and animals. Viruses that infect bacteria are called

- A. Bacteriophages
- B. Pathogenic
- C. Parasites
- D. Microscopic

1.1.4 Plant or fungal microorganisms that feed on dead or decaying tissues of other organisms.

- A. Heterotrophic
- B. Eukaryotic
- C. Prokaryotic
- D. Saprophytic

1.1.5 A small, circular, double-stranded DNA molecule that is distinct from a cell's chromosomal DNA.

- A. Binary fission
- B. Endospore
- C. Plasmid
- D. Flagellum

[5 x 2 = 10]

1.2 Give the correct biological term for each of the following descriptions.

Write down only the term next to the question number (1.2.1 to 1.2.5) on your FOLIO PAPER.

1.2.1 Very small plants (algae) that float on or near the surface of water

1.2.2 Organisms which can synthesize their own food e.g. green plants, algae and some bacteria

1.2.3 The phase in the cell cycle when DNA replication occurs.

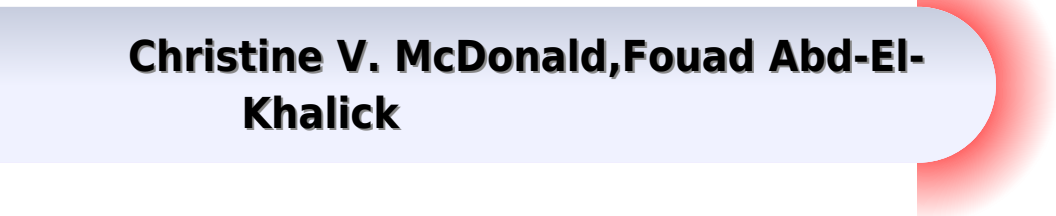
1.2.4 A network of multi-celled threadlike filaments forming the mycelium of a fungus

1.2.5 Threadlike structures that anchor lower plants and fungi to a surface

[5]

Grade 1life Science March Paper 2014

**Christine V. McDonald,Fouad Abd-El-
Khalick**



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AIIMS Annual Report All-India Institute of Medical Sciences, 2014 **The Schenley Experiment** Jake Oresick, 2017-04-14 The Schenley Experiment is the story of Pittsburgh's first public high school a social incubator in a largely segregated city that was highly even improbably successful throughout its 156 year existence Established in 1855 as Central High School and reorganized in 1916 Schenley High School was a model of innovative public education and an ongoing experiment in diversity Its graduates include Andy Warhol actor Bill Nunn and jazz virtuoso Earl Hines and its prestigious academic program and pensions lured such teachers as future Pulitzer Prize winner Willa Cather The subject of investment as well as destructive neglect the school reflects the history of the city of Pittsburgh and provides a study in both the best and worst of urban public education practices there and across the Rust Belt Integrated decades before Brown v Board of Education Schenley succumbed to default segregation during the white flight of the 1970s it rose again to prominence in the late 1980s when parents camped out in six day long lines to enroll their children in visionary superintendent Richard C Wallace's reinvigorated school Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh officials closed the school in 2008 citing over 50 million in necessary renovations a controversial event that captured national attention Schenley alumnus Jake Oresick tells this story through interviews historical documents and hundreds of first person accounts drawn from a community indelibly tied to the school A memorable important work of local and educational history his book is a case study of desegregation magnet education and the changing nature and legacies of America's oldest public schools Representations of Nature of Science in School Science Textbooks Christine V. McDonald, Fouad Abd-El-Khalick, 2017-04-21 Bringing together international research on nature of science NOS representations in science textbooks the unique analyses presented in this volume provides a global perspective on NOS from elementary to college level and discusses the practical implications in various regions across the globe Contributing authors highlight the similarities and differences in NOS representations and provide recommendations for future science textbooks This comprehensive analysis is a definitive reference work for the field of science education **Life Finds a Way** Andreas Wagner, 2019-06-11 How the principles of biological innovation can help us overcome creative challenges in art business and science In *Life Finds a Way* biologist Andreas Wagner reveals the deep symmetry between innovation in biological evolution and human cultural creativity Rarely is either a linear climb to perfection instead progress is typically marked by a sequence of peaks plateaus and pitfalls For instance in Picasso's forty some iterations of *Guernica* we see the same combination of small steps incessant reshuffling and large almost reckless leaps that characterize the way evolution transformed a dinosaur's grasping claw into a condor's soaring wing By understanding these principles we can also better realize our own creative potential to find new solutions to adversity Ultimately *Life Finds a Way* offers a new framework for the nature of creativity enabling us to better adapt grow and change in art business or

science that is in life *Deconstructing Depth of Knowledge* Erik M. Francis, 2021-11-05 Depth of knowledge DOK has become a priority for many schools But if your understanding of DOK is a little cloudy you re not alone This resource is your one stop shop for learning what it is who it s for and how to use and sustain it Ultimately you will discover how to plan and provide learning experiences that are academically rigorous socially and emotionally supportive and student responsive Learn how DOK is a different deeper way of approaching teaching and learning Explore the different DOK levels and how they relate to instruction Understand DOK s relationship with standards and assessment Designate correct levels based on learning needs Acquire strategies for helping students engage with DOK on a deeper level Contents Introduction What Depth of Knowledge Is Not Chapter 1 What Exactly Is Depth of Knowledge Chapter 2 What Are DOK Teaching and Learning Experiences Chapter 3 How to Teach and Learn for Depth of Knowledge Chapter 4 How to Use Webb s DOK Levels as a Multi Tiered System of Support Chapter 5 How to Deconstruct Learning Intentions for Depth of Knowledge Chapter 6 How to Designate the Depth of Knowledge Level Demanded Chapter 7 How to Construct DOK Learning Targets and Success Criteria Chapter 8 How to Ask and Address Good Questions for Depth of Knowledge Chapter 9 Let s Make a DOK Conclusion References and Resources Index **Early Engineering Learning** Lyn English, Tamara Moore, 2018-05-29 This book addresses engineering learning in early childhood spanning ages 3 to 8 years It explores why engineering experiences are important in young children s overall development and how engineering is a core component of early STEM learning including how engineering education links and supports children s existing experiences in science mathematics and design and technology both before school and in the early school years Promoting STEM education across the school years is a key goal of many nations with the realization that building STEM skills required by societies takes time and needs to begin as early as possible Despite calls from national and international organisations the inclusion of engineering based learning within elementary and primary school programs remains limited in many countries Engineering experiences for young children in the pre school or early school years has received almost no attention even though young children can be considered natural engineers This book addresses this void by exposing what we know about engineering for young learners including their capabilities for solving engineering based problems and the few existing programs that are capitalising on their potential **Life in the Age of Drone Warfare** Lisa Parks, Caren Kaplan, 2017-10-19 This volume s contributors offer a new critical language through which to explore and assess the historical juridical geopolitical and cultural dimensions of drone technology and warfare They show how drones generate particular ways of visualizing the spaces and targets of war while acting as tools to exercise state power Essays include discussions of the legal justifications of extrajudicial killings and how US drone strikes in the Horn of Africa impact life on the ground as well as a personal narrative of a former drone operator The contributors also explore drone warfare in relation to sovereignty governance and social difference provide accounts of the relationships between drone technologies and modes of perception and mediation and theorize drones

relation to biopolitics robotics automation and art Interdisciplinary and timely Life in the Age of Drone Warfare extends the critical study of drones while expanding the public discussion of one of our era's most ubiquitous instruments of war Contributors Peter Asaro Brandon Wayne Bryant Katherine Chandler Jordan Crandall Ricardo Dominguez Derek Gregory Inderpal Grewal Lisa Hajjar Caren Kaplan Andrea Miller Anjali Nath Jeremy Packer Lisa Parks Joshua Reeves Thomas Stubblefield Madiha Tahir 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 Sustaining Human Progress Khalid Malik, 2014 Most people in most countries have been steadily better in human development Advances in technology and incomes hold ever greater for longer healthier more secure lives **Handbook on the Economics and Management of Sustainable Oceans** Paulo A.L.D. Nunes, Lisa Emelia Svensson, Anil Markandya, 2017-02-24 The trans disciplinary thematic areas of oceans management and policy require stocktaking of the state of knowledge on ecosystem services being derived from coastal and marine areas Recently adopted

Sustainable Development Goals (SDGs) especially Goals 14 and 15 explicitly focus on this. This Handbook brings together a carefully chosen set of world class contributions from ecology, economics and other development science and attempts to provide policy relevant scientific information on ecosystem services from marine and coastal ecosystems, nuances of economic valuation, relevant legal and sociological response policies for effective management of marine areas for enhanced human well being. The contributors focus on the possible nexus of science, society and science policy with the objective of informing decision makers of the governmental agencies, business and industry and civil society in general with respect to sustainable management of Oceans.

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