

Time— 3 hours
Full marks—(60 + 40)=100

Creative Questions
Marks—60

[N.B.—Figures along the right margin indicate full marks. Read the following stems carefully and answer the questions accordingly. Answer any six of the following questions.]

1.



Stage-A



Stage-B

- (a) What is gene? 1
(b) Why meiosis cell division is called reduction division? Explain. 2
(c) What type of change takes place in the stage-B of the stem? Explain it. 3
(d) If the given procedure of the stem does not take place properly what problem may arise in organism? Analyze it. 4

2.

After returning from school Abir saw that the plants in the tub had withered away. He watered the plants in the afternoon. Next morning he found all the plants alive and fresh.

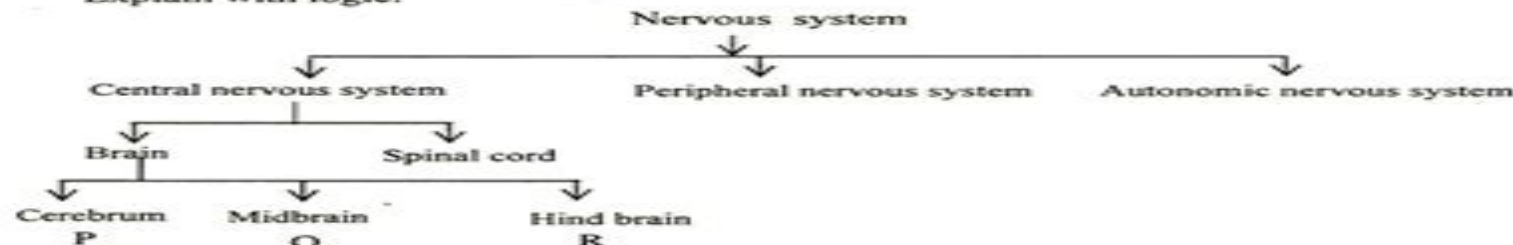
- (a) What is Imbibition? 1
(b) Write down two differences between diffusion and osmosis. 2
(c) Why did the plants of the tub wither away? Explain it. 3
(d) How did the plants become alive and fresh? Analyze it. 4

3.

Rahima Begum put lime in water in a pot. When she was taking some lime from the pot she observed that the pot had become hot and the lime water turned opaque due to her breath reaching to the lime water.

- (a) What is acid? 1
(b) What is meant by indicator? 2
(c) Explain the various uses of the water compound in the pot of the stem. 3
(d) The first compound produced in the stem shows the characteristics of both base and alkali. Explain with logic. 4

4.



- (a) What is neuron? 1
(b) What is meant by spinal cord? Explain. 2
(c) Describe the structure of 'R' in the figure. 3
(d) Knowledge, conscience, intelligence and movement of muscles are controlled by part 'P'—Analyze the statement. 4

[Please turn over]

Jsc Question 2014 Science J Bord

**Raymond D. Harbison, Marie M.
Bourgeois, Giffe T. Johnson**



Jsc Question 2014 Science J Bord:

Achieving Science with CubeSats National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Achieving Science Goals with CubeSats, 2016-11-06 Space based observations have transformed our understanding of Earth its environment the solar system and the universe at large During past decades driven by increasingly advanced science questions space observatories have become more sophisticated and more complex with costs often growing to billions of dollars Although these kinds of ever more sophisticated missions will continue into the future small satellites ranging in mass between 500 kg to 0.1 kg are gaining momentum as an additional means to address targeted science questions in a rapid and possibly more affordable manner Within the category of small satellites CubeSats have emerged as a space platform defined in terms of 10 cm x 10 cm x 10 cm sized cubic units of approximately 1.3 kg each called U s Historically CubeSats were developed as training projects to expose students to the challenges of real world engineering practices and system design Yet their use has rapidly spread within academia industry and government agencies both nationally and internationally In particular CubeSats have caught the attention of parts of the U S space science community which sees this platform despite its inherent constraints as a way to affordably access space and perform unique measurements of scientific value The first science results from such CubeSats have only recently become available however questions remain regarding the scientific potential and technological promise of CubeSats in the future Achieving Science with CubeSats reviews the current state of the scientific potential and technological promise of CubeSats This report focuses on the platform s promise to obtain high priority science data as defined in recent decadal surveys in astronomy and astrophysics Earth science and applications from space planetary science and solar and space physics heliophysics the science priorities identified in the 2014 NASA Science Plan and the potential for CubeSats to advance biology and microgravity research It provides a list of sample science goals for CubeSats many of which address targeted science often in coordination with other spacecraft or use sacrificial or high risk orbits that lead to the demise of the satellite after critical data have been collected Other goals relate to the use of CubeSats as constellations or swarms deploying tens to hundreds of CubeSats that function as one distributed array of measurements

Nordic Food Transitions Jesper Manniche, Bjornar Saether, 2018-12-07 The ambition of the book is to investigate a possible transition in the markets for food in the Nordic countries Six chapters from various disciplinary traditions study change and innovation within the food sectors in Denmark Sweden and Norway while an introductory chapter discusses the findings of these analyses Specialty food has established a strong position within product categories such as craft beer in Denmark and organic food in Sweden but has failed to do so in others The emergence of markets for specialty foods have been promoted by top down policy initiatives and bottom up entrepreneurial efforts Far from providing the only relevant platform for food transition and innovation the New Nordic Food manifesto has helped creating a territorialized action space for networks of food producers and distributors

promoting diversity in local food and rural development Some of the specialty food networks have succeeded in re scaling their operations from a local to a national market Today even large retailers and food processing companies have to pay notice to the ongoing changes among consumers There is however a paradoxical constraint in a transition towards specialty food A large scale transition would imply that producers and consumers abandon precisely what constitute them their exclusiveness The chapters were originally published in a special issue of European Planning Studies *English Mechanic and World of Science* ,1871

Halide Perovskite Semiconductors Yuanyuan Zhou,Ivan Mora-Sero,2023-12-22 Halide Perovskite Semiconductors Enables readers to acquire a systematic and in depth understanding of various fundamental aspects of halide perovskite semiconductors Halide Perovskite Semiconductors Structures Characterization Properties and Phenomena covers the most fundamental topics with regards to halide perovskites including but not limited to crystal defect theory crystal chemistry heterogeneity grain boundaries single crystals thin films nanocrystals synthesis photophysics solid state ionics spin physics chemical in stability carrier dynamics hot carriers surface and interfaces lower dimensional structures and structural functional characterizations Included discussions on the fundamentals of halide perovskites aim to expand the basic science fields of physics chemistry and materials science Edited by two highly qualified researchers Halide Perovskite Semiconductors includes specific information on Crystal defect theory of halide perovskites crystal chemistry of halide perovskites and processing and microstructures of halide perovskites Single crystals of halide perovskites nanocrystals of halide perovskites low dimensional perovskite crystals and nanoscale heterogeneity of halide perovskites Carrier mobilities and dynamics in halide perovskites light emission of halide perovskites photophysics and ultrafast spectroscopy of halide perovskites Hot carriers in halide perovskites correlating photophysics with microstructures in halide perovskites chemical stability of halide perovskites and solid state ionics of halide perovskites Readers can find solutions to technological issues and challenges based on the fundamental knowledge gained from this book As such Halide Perovskite Semiconductors is an essential in depth treatment of the subject ideal for solid state chemists materials scientists physical chemists inorganic chemists physicists and semiconductor physicists

Addictions Counseling Today Kevin Alderson,2019-12-03 Focusing on the new DSM V classifications for addiction with an emphasis on CACREP neuroscience and treatment this provocative contemporary text is an essential reference for both students and practitioners wanting to gain a deeper understanding of those with addiction Psychology and Human Performance in Space Programs Lauren Blackwell Landon,Kelley J. Slack,Eduardo Salas,2020-10-08 In Psychology and Human Performance in Space Programs Research at the Frontier leading space researchers from multiple fields of expertise summarize the recent growth of knowledge the resulting tools and techniques and the research still needed to protect humans in space Making use of cutting edge research and development related to composing training and supporting astronaut crews who will live and work together for future missions to Mars this book examines the current practices of leaders in the field both at NASA and in

academia Presenting astronaut data alongside data from analogous extreme environments such as mission simulation habitats this volume helpfully contrasts and compares to examine the lessons that can be learned from other approaches Using the context of current International Space Station missions the book discusses the influence of human factors and physiological health on individual and team job performance and social cohesion With an overview of the physical and psychological hazards of space and the challenges posed by conducting space related applied psychology research this volume uses the context of a long duration Mars mission as a lens through which to discuss adaptation and resilience technical and team training technological advances related to working and living in space and human interaction with onboard systems Additionally the book includes an essay from retired astronaut Clay Anderson on his experiences in space and thoughts on future missions to the moon and Mars This first of two volumes will be of interest to professionals in the field of human factors and psychology at work as well as academics examining human performance in extreme environments and aerospace

Phytomanagement of Polluted Sites Vimal Chandra Pandey, Kuldeep Baudh, 2018-11-30 Phytomanagement of Polluted Sites Market Opportunities in Sustainable Phytoremediation brings together recent and established knowledge on different aspects of phytoremediation providing this information in a single source that offers a cutting edge synthesis of scientific and experiential knowledge on industrially contaminated site restoration that is useful for both practitioners and scientists The book gives interested groups both non profit and for profit methods to manage dumpsites and other contaminated areas including tactics on how to mitigate costs and even profit from ecological restoration Covers successful examples of turning industrially contaminated sites into ecologically healthy revenue producers Explores examples of phytomanagement of dumpsites from around the globe Provides the tools the reader needs to select specific plant species according to site specificity

Hamilton and Hardy's Industrial Toxicology Raymond D. Harbison, Marie M. Bourgeois, Giff T. Johnson, 2015-04-13 Providing a concise yet comprehensive reference on all aspects of industrial exposures and toxicants this book aids toxicologists industrial hygienists and occupational physicians to investigate workplace health problems Updates and expands coverage with new chapters covering regulatory toxicology toxicity testing physical hazards high production volume HPV chemicals and workplace drug use Includes information on occupational and environmental sources of exposure mammalian toxicology industrial hygiene medical management and ecotoxicology Retains a succinct chapter format that has become the hallmark for the previous editions Distils a vast amount of information into one resource for both academics and professionals

The Compact Edition of the Oxford English Dictionary Sir James Augustus Henry Murray, 1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933

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