

Practical Task Term 1: Biosphere to ecosystems

Date: _____

Name: _____

Total	
	30

Duration: 45 minutes

INSTRUCTIONS AND INFORMATION**Read the following instructions carefully before answering the questions.**

1. This is a formal SBA task and must be done under supervised conditions in the classroom.
2. Each learner completes this task on his/her own (under test conditions).
3. Present the answers according to the instructions of each question.
4. Draw all diagrams in pencil and labels in blue ink.
5. 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.

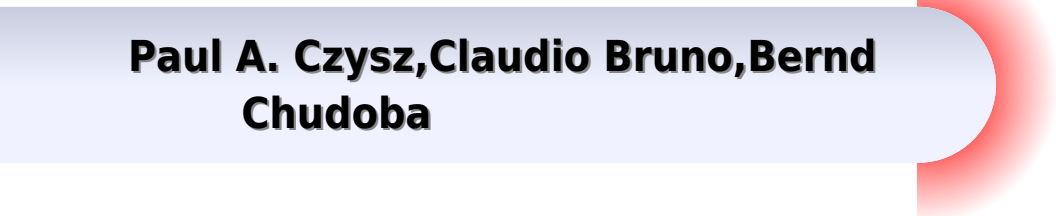
Ecological pyramids are a graphical representation in the shape of a pyramid to show the feeding relationship of groups of organisms, and the flow of energy or biomass through the different trophic levels in a given ecosystem.

QUESTION 1: Abiotic factors

Grade 10 learners carried out an investigation to determine the water content,

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**Paul A. Czysz, Claudio Bruno, Bernd
Chudoba**



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YCT Expert Team , 2023 24 NTA CSIR NET JRF PART A General Aptitude Compulsory Solved Papers Complex Dynamical Systems in Education Matthijs Koopmans,Dimitrios Stamovlasis,2016-02-19 This book capitalizes on the developments in dynamical systems and education by presenting some of the most recent advances in this area in seventeen non overlapping chapters The first half of the book discusses the conceptual framework of complex dynamical systems and its applicability to educational processes The second half presents a set of empirical studies that that illustrate the use of various research methodologies to investigate complex dynamical processes in education and help the reader appreciate what we learn about dynamical processes in education from using these approaches **Data Integration in the Life Sciences** Sören Auer,Maria-Esther Vidal,2018-12-29 This book constitutes revised selected papers from the 13th International Conference on Data Integration in the Life Sciences DILS 2018 held in Hannover Germany in November 2018 The 5 full 8 short 3 poster and 4 demo papers presented in this volume were carefully reviewed and selected from 22 submissions The papers are organized in topical sections named big biomedical data integration and management data exploration in the life sciences biomedical data analytics and big biomedical applications **Dual-use life science research and biosecurity in the 21st Century: Social, Technical, Policy, and Ethical Challenges** Jonathan E. Suk,Kathleen M. Vogel,Amanda Jane Ozin,2015-06-04 In September 2011 scientists announced new experimental findings that would not only threaten the conduct and publication of influenza research but would have significant policy and intelligence implications The findings presented a modified variant of the H5N1 avian influenza virus hereafter referred to as the H5N1 virus that was transmissible via aerosol between ferrets These results suggested a worrisome possibility the existence of a new airborne and highly lethal H5N1 virus that could cause a deadly global pandemic In response a series of international discussions on the nature of dual use life science arose These discussions addressed the complex social technical political security and ethical issues related to dual use research This Research Topic will be devoted to contributions that explore this matrix of issues from a variety of case study and international perspectives **Machine Intelligence** Pethuru Raj,P Beulah Soundarabai,Peter Augustine,2023-10-03 Machines are being systematically empowered to be interactive and intelligent in their operations offerings and outputs There are pioneering Artificial Intelligence AI technologies and tools Machine and Deep Learning ML DL algorithms along with their enabling frameworks libraries and specialized accelerators find particularly useful applications in computer and machine vision human machine interfaces HMIs and intelligent machines Machines that can see and perceive can bring forth deeper and decisive acceleration automation and augmentation capabilities to businesses as well as people in their everyday assignments Machine vision is becoming a reality because of advancements in the computer vision and device

instrumentation spaces Machines are increasingly software defined That is vision enabling software and hardware modules are being embedded in new generation machines to be self surroundings and situation aware Machine Intelligence Computer Vision and Natural Language Processing emphasizes computer vision and natural language processing as drivers of advances in machine intelligence The book examines these technologies from the algorithmic level to the applications level It also examines the integrative technologies enabling intelligent applications in business and industry Features Motion images object detection over voice using deep learning algorithms Ubiquitous computing and augmented reality in HCI Learning and reasoning in Artificial Intelligence Economic sustainability mindfulness and diversity in the age of artificial intelligence and machine learning Streaming analytics for healthcare and retail domains Covering established and emerging technologies in machine vision the book focuses on recent and novel applications and discusses state of the art technologies and tools

Questions and answers for job interview Offshore Oil & Gas Platforms Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it is always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 291 questions and answers for job interview and as a BONUS web addresses to 288 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry **Appearance in Reality**

John Heil,2021 How does the way things appear to us relate to the way things really are Science tells us that the world is very different from the way we experience it John Heil offers an explanation of why the scientific image of the world that we get from physics is our best guide to the nature of reality to what the appearances are appearances of **Future**

Spacecraft Propulsion Systems and Integration Paul A. Czysz,Claudio Bruno,Bernd Chudoba,2017-08-30 The updated and expanded third edition of this book focuses on the multi disciplinary coupling between flight vehicle hardware alternatives and enabling propulsion systems It discusses how to match near term and far term aerospace vehicles to missions and provides a comprehensive overview of the subject directly contributing to the next generation space infrastructure from space tourism to space exploration This holistic treatment defines a mission portfolio addressing near term to long term space transportation needs covering sub orbital orbital and escape flight profiles In this context a vehicle configuration classification is introduced covering alternatives starting from the dawn of space access A best practice parametric sizing approach is introduced to correctly design the flight vehicle for the mission This technique balances required mission with the available vehicle solution space and is an essential capability sought after by technology forecasters and strategic planners alike *Linking Teacher Preparation Program Design and Implementation to Outcomes*

for Teachers and Students Jennifer E. Carinci, Cara Jackson, Stephen J. Meyer, 2020-02-01 Improving the use of evidence in teacher preparation is one of the greatest challenges and opportunities for our field The chapters in this volume explore how data availability quality and use within and across preparation programs shed light on the structures policies and practices associated with high quality teacher preparation Chapter authors take on critical questions about the connection between what takes place during teacher preparation and subsequent outcomes for teachers and students which has remained a black box for too long Despite a long history of teacher preparation in the U S and a considerable investment in preservice and in service training much is still to be learned about how pre service preparation impacts teacher effectiveness A strong empirical basis that informs how specific aspects of and approaches to teacher preparation relate to outcomes for graduates and their preK 12 student outcomes will provide a foundation for improved teaching and learning Our book responds to stakeholders collective responsibility to students and teachers to act more deliberately Issues of data availability and quality the uses of data for improvement priorities for future research and opportunities to promote evidence use in teacher preparation are discussed throughout the volume to inspire collective action to push the field towards more use of evidence Chapters present research that uses a variety of research designs methodologies and data sources to explore important questions about the relationship between teacher preparation inputs and outcomes

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web stakeholders would have ease in decision making through various strategy matrices used in analyzing the global wheelchairs market detailed segmentation global wheelchairs

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