

GRADE 10 – PAPER 1 NOVEMBER EXAMINATION

QUESTIONS	TYPE OF QUESTION	TOPIC	MARK ALLOCATION
1.1	Multiple choice	Diversity of life Reproduction Viruses	20
1.2	Terminology	Cells: basic units of life	10
1.3	Matching columns	Plant and animal tissues	20
2.1	Diagram with question	Plant and animal cell	8
2.2	Diagram with question	Plant and animal cell	4
2.3	Diagrams of various drawing labelling	Blood	28
3.1	Diagram with question	Plant and animal tissues	8
3.2	Diagram with question	Plant organs	8
3.3	Identification Anatomy	Transpiration	10
3.4	Diagram with question	Human skeleton	28
3.5	Diagram with question	Human skeleton	26
			TOTAL: 150

Life Science

Grade 10

PAPER 1

Date: NOVEMBER 2023

Time: 2 ½ HOURS

Mark: 150

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 to D) next to the question number (1.1.1 to 1.1.10) on the FOLDY PAPER, for example 1.1.6 E.

1.1.1 Compounds that do NOT contain carbon.

- A. Organellies.
- B. Inorganic compounds.
- C. Atoms.
- D. Elements.

1.1.2 Fundamental units of a compound that consists of a group of atoms which are held together in fixed proportions by chemical bonds.

- A. Compounds.
- B. Organic compounds.
- C. Molecules.
- D. Atoms.

1.1.3 Medical condition in which there are not enough red blood cells in the blood.

- A. Eutrophication.
- B. Anaemia.
- C. Goitre.
- D. Chlorosis.

Life Sciences Structures Paper 1

J Rink



Life Sciences Structures Paper 1:

Selected Papers from the 3rd International Symposium on Life Science Valentin A. Stonik, 2020-12-10 This book contains information for specialists in various fields of science From the point of view of pharmacology data are reported regarding the effect of echinochrome A and related metabolites from sea urchins on the survival and functional properties of stem cells which can facilitate ex vivo application of this compound in medicine For scientists who isolate and establish structures of marine natural compounds an article devoted to the proof of the microbial origin of a typical metabolite earlier found exclusively from marine invertebrates 6 epi monanchorin may also be of interest A range of new marine metabolites was discovered from the both marine invertebrates and marine microorganisms particularly in marine isolates of fungi Some marine natural products could be applied to treat such diseases as Parkinson s disease ischemic stroke viral infections and so on Magnificamide a new peptide from sea anemones inhibits porcine and human saliva amylases showing its probable antidiabetic properties Application of the genomic approach was discussed in studies on various marine bacteria producing marine enzymes with unusual specificity The lectins capable of recognizing glycoforms of different substrates demonstrate the possibility to be used to elaborate new medical diagnostics

Large Space Structures & Systems in the Space Station Era ,1991 *National Library of Medicine Current Catalog* National Library of Medicine (U.S.),1993 First multi year cumulation covers six years 1965 70 **Space Station Systems** ,1987 **Technology for Large Space Systems** ,1983 Data Integration in the Life Sciences Patrick Lambrix,Graham Kemp,2010-08-11 The development and increasingly widespread deployment of high throughput experimental methods in the life sciences is giving rise to numerous large c plex and valuable data resources This foundation of experimental data und pins the systematic study of organismsand diseases which increasinglydepends on the development of models of biological systems The development of these models often requires integration of diverse experimental data resources once constructed the models themselves become data and present new integration challenges for tasks such as interpretation validation and comparison The Data Integration in the Life Sciences DILS Conference series brings together data and knowledge management researchers from the computer s ence research community with bioinformaticians and computational biologists to improve the understanding of how emerging data integration techniques can address requirements identi ed in the life sciences DILS 2010 was the seventh event in the series and was held in Goth burg Sweden during August 25 27 2010 The associated proceedings contain 14 peer reviewed papers and 2 invited papers The sessions addressed ontology engineering and in particular evolution matching and debugging of ontologies akeycomponentforsemanticintegration Web servicesasanimportanttechn ogy for data integration in the life sciences data and text mining techniques for discovering and recognizing biomedical entities and relationships between these entities and information management introducing data integration solutions for di erent types of applications related to cancer systems biology and croarray experimental data and an approach for integrating ranked data in the life

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Caught By Viruses Michael G Rossmann,2021-11-10 The current book attempts to give a glimpse of the scientific life of Michael Rossmann The book begins with his very interesting and moving autobiography His enormous energy must have been evident already from early childhood when he and his mother had to emigrate from Nazi Germany to England via The Netherlands Starting school with a new language was a challenge that he managed well with the assistance of understanding teachers Crystallography soon became the tool to explore new worlds unknown to everybody With a skill for mathematics he realized that the transform of a molecular structure in the diffraction pattern could be used for analysis of both symmetry and structural relationships This method molecular replacement MR also the initials of his name became one of his great successes of his career The previous book by him in this series *Selected Papers by Michael G Rossmann with Commentaries* covers his main contributions in this area With an interest in symmetry viruses became obvious objects to study Rossmann attacked these monstrously large molecular assemblies with his unfailing energy and his appetite for real challenges The amazing variation of molecular arrangements with icosahedral symmetry is truly amazing This book includes a selection of reports of the structures of some giant viruses As always knowing the structure enhances the understanding of function greatly in the case of viruses the mechanism of infection is a key problem Rossmann has contributed many central insights in this area Thus this book is of interest both as an interesting personal story but also for research into viruses that repeatedly plague all living organisms on the planet right now in the form of the corona virus pandemic *Politics and the Life Sciences* ,1988 **Damage Assessment of Structures VII** Luigi Garibaldi,Cecilia Surace,Karen M. Holford,Wiesław M. Ostachowicz,2007-09-15 Proceedings of the 7th International Conference on Damage Assessment of Structures DAMAS 2007 Torino Italy 25th to 27th June 2007 *Space Station Systems* ,1990 **Author's Handbook of Styles for Life Science Journals** Michel Atlas,1995-11-08 Let the Author s Handbook of Styles for Life Science Journals save you time and trouble by providing a one stop resource for all your manuscript writing requirements No more plowing through your journal collection or wandering the library stacks to get those elusive journal pages containing instructions to authors This unique book contains all the information you need to know whether the journal will consider your manuscript the journal s submission address how to construct the abstract illustrations tables and references and specific information on copyright multiple authorship statistical analyses and page charges The Author s Handbook of Styles for Life Science Journals gives all this information for 440 of the most important English language life science journals Titles were selected from the Journal Rankings by Times Cited list in the Science Citation Index Journal Citation Report Because this report is heavily weighted

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