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**GRADE 12**

**LIFE SCIENCES P2**

**June 2023**

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**TIME: 2½ HOURS**

**This question paper consists of 17 pages.**

# Life Science Grade P2 2013 At S

**Martin Abraham**



## Life Science Grade P2 2013 At S:

**S & T Post** ,2011      **Geomicrobes: Life in Terrestrial Deep Subsurface** Malin Bomberg,Lasse Ahonen,2017-07-17  
The deep subsurface is in addition to space one of the last unknown frontiers to human kind A significant part of life on Earth resides in the deep subsurface hiding great potential of microbial life of which we know only little The conditions in the deep terrestrial subsurface are thought to resemble those of early Earth which makes this environment an analog for studying early life in addition to possible extraterrestrial life in ultra extreme conditions Early microorganisms played a great role in shaping the conditions on the young Earth Even today deep subsurface microorganisms interact with their geological environment transforming the conditions in the groundwater and on rock surfaces Essential elements for life are richly present but in difficultly accessible form The elements driving the microbial deep life is still not completely identified Most of the microorganisms detected by novel molecular techniques still lack cultured representatives Nevertheless using modern sequencing techniques and bioinformatics the functional roles of these microorganisms are being revealed We are starting to see the differences and similarities between the life in the deep subsurface and surface domains We may even begin to see the function of evolution by comparing deep life to life closer to the surface of Earth Deep life consists of organisms from all known domains of life This Research Topic reveals some of the rich diversity and functional properties of the great biomass residing in the deep dark subsurface      **Metalloenzymes: Potential Drug Targets** Jamshed Iqbal,Jean Sévigny,Claus Jacob,2021-11-12      **Lactic Acid Bacteria: Microbial Metabolism and Expanding Applications** Jian-Ming Liu,Fuping Lu,Csaba Fehér,Mingfeng Cao,Peter Røhdel Jensen,2022-01-06      *Integrating the social determinants of health into health workforce education and training* World Health Organization,2023-11-08      **Cancer Cell Metabolism and Immunomodulation in the Context of Tumor Metastasis** Qiong Zhu Dong,Baoli Hu,Peter Jon Nelson,Hongquan Zhang,Yue Zhao,2022-03-18      **Encyclopedia of Sustainable Technologies** Martin Abraham,2017-07-04 Encyclopedia of Sustainable Technologies Eight Volume Set provides an authoritative assessment of the sustainable technologies that are currently available or in development Sustainable technology includes the scientific understanding development and application of a wide range of technologies and processes and their environmental implications Systems and lifecycle analyses of energy systems environmental management agriculture manufacturing and digital technologies provide a comprehensive method for understanding the full sustainability of processes In addition the development of clean processes through green chemistry and engineering techniques are also described The book is the first multi volume reference work to employ both Life Cycle Analysis LCA and Triple Bottom Line TBL approaches to assessing the wide range of technologies available and their impact upon the world Both approaches are long established and widely recognized playing a key role in the organizing principles of this valuable work Provides readers with a one stop guide to the most current research in the field Presents a grounding of the fundamentals of the field of sustainable technologies Written by international leaders in the

field offering comprehensive coverage of the field and a consistent high quality scientific standard Includes the Life Cycle Analysis and Triple Bottom Line approaches to help users understand and assess sustainable technologies Hadrosaurs David A. Eberth, David C. Evans, 2014-11-05 A comprehensive study of the Late Cretaceous duck billed dinosaur featuring insights on its origins anatomy and more Hadrosaurs also known as duck billed dinosaurs are abundant in the fossil record With their unique complex jaws and teeth perfectly suited to shred and chew plants they flourished on Earth in remarkable diversity during the Late Cretaceous So ubiquitous are their remains that we have learned more about dinosaurian paleobiology and paleoecology from hadrosaurs than we have from any other group In recent years hadrosaurs have been in the spotlight Researchers around the world have been studying new specimens and new taxa seeking to expand and clarify our knowledge of these marvelous beasts This volume presents the results of an international symposium on hadrosaurs sponsored by the Royal Tyrrell Museum and the Royal Ontario Museum where scientists and students gathered to share their research and their passion for duck billed dinosaurs A uniquely comprehensive treatment of hadrosaurs the book encompasses not only the well known hadrosaurids proper but also Hadrosauroidea allowing the former group to be evaluated in a broader perspective The 36 chapters are divided into six sections an overview new insights into hadrosaur origins hadrosaurid anatomy and variation biogeography and biostratigraphy function and growth and preservation tracks and traces followed by an afterword by Jack Horner Well designed handsome and fantastically well edited credit there to Patricia Ralrick congratulations are deserved to the editors for pulling together a vast amount of content and doing it well The book contains a huge quantity of information on these dinosaurs Darren Naish co author of Tetrapod Zoology Scientific American Hadrosaurs have not had the wide publicity of their flesh eating cousins the theropods but this remarkable dinosaur group offers unique opportunities to explore aspects of palaeobiology such as growth and sexual dimorphism In a comprehensive collection of papers all the hadrosaur experts of the world present their latest work exploring topics as diverse as taxonomy and stratigraphy locomotion and skin colour Michael Benton University of Bristol **Science Citation Index**, 1994 Vols for 1964 have guides and journal lists Book Review Index, 2006 Every 3rd issue is a quarterly cumulation

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