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GEOGRAPHY

0460/11

Paper 1 Geographical Themes

May/June 2022

1 hour 45 minutes

You must answer on the question paper.

You will need: Insert (enclosed)
Calculator
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Ruler

INSTRUCTIONS

- Answer **three** questions in total, **one** from each section.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do **not** write on any bar codes.
- If additional space is needed, you should use the lined pages at the end of this booklet; the question number or numbers must be clearly shown.

INFORMATION

- The total mark for this paper is 75.
- The number of marks for each question or part question is shown in brackets [].
- The insert contains additional resources referred to in the questions.

Definitions

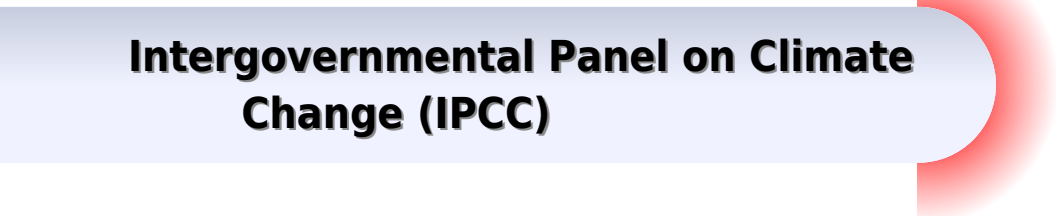
MEDCs – More Economically Developed Countries

LEDCs – Less Economically Developed Countries

This document has **28** pages.

0460 11 M J 12 Answer

**Intergovernmental Panel on Climate
Change (IPCC)**



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Climate Change 2021 - The Physical Science Basis Intergovernmental Panel on Climate Change (IPCC), 2023-07-26
The Working Group I contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change IPCC provides a comprehensive assessment of the physical science basis of climate change. It considers in situ and remote observations, paleoclimate information, understanding of climate drivers and physical, chemical, and biological processes and feedbacks, global and regional climate modelling, advances in methods of analyses and insights from climate services. It assesses the current state of the climate, human influence on climate in all regions, future climate change, including sea level rise, global warming effects, including extremes, climate information for risk assessment, and regional adaptation, limiting climate change by reaching net zero carbon dioxide emissions, and reducing other greenhouse gas emissions, and benefits for air quality. The report serves policymakers, decision makers, stakeholders, and all interested parties with the latest policy-relevant information on climate change. Available as Open Access on Cambridge Core.

Title List of Documents Made Publicly Available U.S. Nuclear Regulatory Commission, 1980

The Application of Multi-omics Analysis in Translational Medicine Haihui Huang, Madhu Chetty, 2026-01-06

Multi-omics analysis has emerged as a powerful approach in translational medicine, integrating diverse molecular data to provide a comprehensive understanding of biological systems and disease mechanisms. This Research Topic aims to explore the latest advancements and applications of multi-omics analysis in bridging the gap between basic research and clinical practice. In recent years, technological breakthroughs have enabled the simultaneous profiling of multiple molecular layers, including genomics, transcriptomics, proteomics, metabolomics, and epigenomics. The integration of these diverse data types offers unprecedented insights into complex biological processes and disease pathogenesis. Translational medicine seeks to leverage these insights to improve patient outcomes through more precise diagnostics, prognostics, and therapeutic strategies. Despite the potential of multi-omics approaches, several challenges persist in their application to translational medicine. These include data integration and interpretation, handling high-dimensional datasets, identifying clinically relevant biomarkers, and translating molecular findings into actionable clinical insights. Additionally, standardization of multi-omics protocols, data analysis pipelines, and reporting methods is crucial for reproducibility and clinical implementation. This Research Topic will address these challenges and explore innovative solutions in the field of multi-omics analysis for translational medicine. We welcome contributions that advance our understanding of multi-omics applications in various aspects of healthcare and biomedical research. Themes of interest include, but are not limited to:

1. Novel computational methods for integrating multi-omics data
2. Machine learning and artificial intelligence approaches in multi-omics analysis
3. Multi-omics strategies for biomarker discovery and validation
4. Applications of multi-omics in precision medicine and personalized therapy
5. Multi-omics approaches in drug discovery and development
6. Integration of clinical data with multi-omics profiles
7. Single-cell multi-

omics technologies and their translational applications 8 Multi omics studies in complex diseases e g cancer cardiovascular diseases neurodegenerative disorders 9 Longitudinal multi omics profiling for disease progression and treatment response 10 Standardization and quality control in multi omics data generation and analysis 11 Ethical considerations and challenges in multi omics research and clinical implementation 12 Multi omics approaches in understanding drug resistance and developing combination therapies 13 Integration of microbiome data with host multi omics profiles 14 Systems biology approaches leveraging multi omics data for network analysis and pathway discovery By exploring these themes this Research Topic aims to showcase cutting edge research and foster discussions on the transformative potential of multi omics analysis in translational medicine We invite researchers clinicians and bioinformaticians to contribute their latest findings methodologies and perspectives to advance this rapidly evolving field Note This Research Topic is listed in multiple journal sections Translational Medicine only deals with manuscripts where applications of bioinformatics studies in clinic is presented We recommend submitting a manuscript summary to ensure your manuscript is submitted to the correct section

Genetic Response and Resistance in Plants towards Abiotic and Biotic Stresses, 2nd edition Sushil Satish

Chhapekar, Sachin Gorakshnath Chavan, 2024-12-20

Response and Resistance in Castration-Resistant Prostate

Cancer Hung-Ming Lam, Qi Cao, Renee de Leeuw, 2020-12-24 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

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Journal of Physical Oceanography, 2000-09

Cancer

Research, 2006-08

Index to Scientific Reviews, 1987

Cumulative Index of Geophysics, 1936-1969 Inclusive : [and

Cumulative Index To] Early Geophysical Papers, and Geophysical Prospecting, 1953-1969 Inclusive William J. Zwart, 1970

Lace, 1991

MIMP 1986, Magazine Industry Market Place, 1985

International Aerospace Abstracts, 1996

Cardiac Surgery in the Adult, Fourth Edition

Lawrence H. Cohn, 2012 Accompanying DVD contains video clips to

supplement the text descriptions of operations and procedures p P xxi

Energy Research Abstracts, 1992 Semiannual

with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories

energy centers and contractors Includes all works deriving from DOE other related government sponsored information and

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- Chapter 3: 0460 11 M J 12 Answer in Everyday Life
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- Chapter 5: Conclusion

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