GCE O Level Oct/Nov 2009 Science (Physics, Chemistry) 5116 Paper 1 Suggested Answers

#	Ans	Workings/Remarks
1	В	Physical quantities are made up of scalars (magnitude) and vectors (magnitude + direction). Therefore, all physical quantities consist of magnitude. A SI unit is assigned to each physical quantity.
2	D	Period is the time taken for one oscillation (N.B. Starting point and finishing point must be the same)
3	С	Uniform acceleration occurs at the linear part of the speed-time graph. ⇒ Gradient of speed-time graph = acceleration = (20-10)/(3-2) = 10 m/s ²
4	В	On Earth, Weight = mg Mass = 50 / 10 = 5kg On the Moon, Weight = mg = 5 x 1.6 = 8N Mass is constant and therefore has the same value on Earth and on the Moon.
5	A	Pressure = $\frac{86700}{Area} = \frac{40}{0.001 \times 4} = 10000 \text{ N/m}^2$
6	Α	Major functions (and corresponding energy <u>produced</u> by the appliance): Hair dryer – heating (heat energy), blowing (kinetic energy) and some noise (sound energy) Loudspeaker – sound energy Electric iron – heating (heat energy) Electric heater – heating (heat energy)
7	В	Power = Work done time = Gain in potential energy = mgh / r = 2000×10 = 1000 W
8	D	In a convection process where the liquid is heated from below, the region X (which is close to the heat source) expands, leading to a reduction in its density. Mass doesn't change under any circumstances.
9	В	The graph has two parts that leveled off, indicating a change in state. The gas first changed into liquid (condensation) and then into solid (solidifying).
10	С	Looking at the diagram, there are 5 wavelengths per 20 cm (1 × wavelength = distance between two consecutive wavefronts)
		Velocity = frequency × wavelength = $4 \times \frac{20}{5} = 16$ cm/s

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Myint Swe Khine

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Science Education in East Asia Myint Swe Khine, 2015-09-03 This book presents innovations in teaching and learning science novel approaches to science curriculum cultural and contextual factors in promoting science education and improving the standard and achievement of students in East Asian countries The authors in this book discuss education reform and science curriculum changes and promotion of science and STEM education parental roles and involvement in children's education teacher preparation and professional development and research in science education in the context of international benchmarking tests to measure the knowledge of mathematics and science such as the Trends in Mathematics and Science Study TIMSS and achievement in science mathematics and reading like Programme for International Student Assessment PISA Among the high achieving countries the performance of the students in East Asian countries such as Singapore Taiwan Korea Japan Hong Kong and China Shanghai are notable This book investigates the reasons why students from East Asian countries consistently claim the top places in each and every cycle of those study It brings together prominent science educators and researchers from East Asia to share their experience and findings reflection and vision on emerging trends pedagogical innovations and research informed practices in science education in the region It provides insights into effective educational strategies and development of science education to international readers U.S. Government, Appendix, 2013-04-10 Presents detailed information on individual programs and appropriation accounts that constitute the budget Includes for each Government department and agency the text of proposed appropriations language budget schedules for each account new legislative proposals and explanations of the work to be performed and the funds needed and proposed general provisions applicable to the appropriations of entire agencies or groups of agencies

The Budget of the United States Government United States. Office of Management and Budget, 2013 Numerical Methods in Geotechnical Engineering IX, Volume 1 Manuel de Matos Fernandes, 2018-06-22 NUMGE 2018 is the ninth in a series of conferences on Numerical Methods in Geotechnical Engineering organized by the ERTC7 under the auspices of the International Society for Soil Mechanics and Geotechnical Engineering ISSMGE The first conference was held in 1986 in Stuttgart Germany and the series continued every four years 1990 Santander Spain 1994 Manchester United Kingdom 1998 Udine Italy 2002 Paris France 2006 Graz Austria 2010 Trondheim Norway 2014 Delft The Netherlands The conference provides a forum for exchange of ideas and discussion on topics related to numerical modelling in geotechnical engineering Both senior and young researchers as well as scientists and engineers from Europe and overseas are invited to attend this conference to share and exchange their knowledge and experiences This work is the first volume of NUMGE 2018

<u>Lippincott Nursing Procedures</u> Lippincott,2015-10-06 Lippincott Nursing Procedures 7e is a start to finish guide to more than 400 nursing procedures from basic to advanced This reference outlines every procedure lists equipment details each step and includes rationales and cautions to ensure patient safety and positive outcomes Concise clear content targets key

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Reauthorization Act of 2010 United States. Congress. House. Committee on Science and Technology (2007),2010 Basic Science Methods for Clinical Researchers Morteza Jalali, Francesca Yvonne Louise Saldanha, Mehdi Jalali, 2017-03-31 Basic Science Methods for Clinical Researchers addresses the specific challenges faced by clinicians without a conventional science background The aim of the book is to introduce the reader to core experimental methods commonly used to answer questions in basic science research and to outline their relative strengths and limitations in generating conclusive data This book will be a vital companion for clinicians undertaking laboratory based science It will support clinicians in the pursuit of their academic interests and in making an original contribution to their chosen field In doing so it will facilitate the development of tomorrow's clinician scientists and future leaders in discovery science Serves as a helpful guide for clinical researchers who lack a conventional science background Organized around research themes pertaining to key biological molecules from genes to proteins cells and model organisms Features protocols techniques for troubleshooting common problems and an explanation of the advantages and limitations of a technique in generating conclusive data Appendices provide resources for practical research methodology including legal frameworks for using stem cells and animals in the laboratory ethical considerations and good laboratory practice GLP **Numerical Methods in** Geotechnical Engineering IX António Cardoso, José Borges, Pedro Costa, António Gomes, José Marques, Castorina Vieira, 2018-06-19 Numerical Methods in Geotechnical Engineering IX contains 204 technical and scientific papers presented at the 9th European Conference on Numerical Methods in Geotechnical Engineering NUMGE2018 Porto Portugal 25 27 June 2018 The papers cover a wide range of topics in the field of computational geotechnics providing an overview of recent developments on scientific achievements innovations and engineering applications related to or employing numerical methods They deal with subjects from emerging research to engineering practice and are grouped under the following themes Constitutive modelling and numerical implementation Finite element discrete element and other numerical methods Coupling of diverse methods Reliability and probability analysis Large deformation large strain analysis Artificial intelligence and neural networks Ground flow thermal and coupled analysis Earthquake engineering soil dynamics and soil structure interactions Rock mechanics Application of numerical methods in the context of the Eurocodes Shallow and deep foundations Slopes and cuts Supported excavations and retaining walls Embankments and dams Tunnels and caverns and pipelines Ground improvement and reinforcement Offshore geotechnical engineering Propagation of vibrations Following the

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Argentina 29, 30 & 31 October 2014 Ariel Braidot, Alejandro Hadad, 2015-03-13 This volume presents the proceedings of the CLAIB 2014 held in Paran Entre R os Argentina 29 30 Sensors Micro and Nano Technologies Biomaterials Tissue Engineering and Artificial Organs Biomechanics Robotics and Motion Analysis Biomedical Images and Image Processing Biomedical Signal Processing Clinical Engineering and Electromedicine Computer and Medical Informatics Health and home care telemedicine Modeling and Simulation Radiobiology Radiation and Medical Physics Rehabilitation Engineering and Prosthetics Technology Education and Innovation Handbook of Spatial Analysis in the Social Sciences Sergio J. Rey, Rachel S. Franklin, 2022-11-18 Providing an authoritative assessment of the current landscape of spatial analysis in the social sciences this cutting edge Handbook covers the full range of standard and emerging methods across the social science domain areas in which these methods are typically applied Accessible and comprehensive it expertly answers the key questions regarding the dynamic intersection of spatial analysis and the social sciences

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