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 = $\frac{Feroe}{Area} = \frac{40}{0.001 \times 4} = 10000 \text{ N/m}^2$
6	A	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 mg/m = 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	c	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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Clelia De-la-Peña, Raúl Alvarez-Venegas, Christopher Cullis

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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 Lippincott Nursing Procedures 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 information needed to perform nursing procedures safely and accurately at the bedside Tips alerts checklists illustrations and tables provide clarity and quick access to key procedural information Organized alphabetically for easy accessibility the book includes basic and advanced procedures on key topics including infection control specimen collection physical treatments drug administration IV therapy and hemodynamic monitoring as well as procedures related to body systems such as chest tubes peripheral nerve stimulation and intra abdominal pressure monitoring 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

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