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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- 1. Understanding the eBook O Level Science 5116 01 2014
 - The Rise of Digital Reading O Level Science 5116 01 2014
 - Advantages of eBooks Over Traditional Books
- 2. Identifying O Level Science 5116 01 2014
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an O Level Science 5116 01 2014
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from O Level Science 5116 01 2014
 - Personalized Recommendations
 - O Level Science 5116 01 2014 User Reviews and Ratings
 - O Level Science 5116 01 2014 and Bestseller Lists
- 5. Accessing O Level Science 5116 01 2014 Free and Paid eBooks

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- O Level Science 5116 01 2014 eBook Subscription Services
- O Level Science 5116 01 2014 Budget-Friendly Options
- 6. Navigating O Level Science 5116 01 2014 eBook Formats
 - o ePub, PDF, MOBI, and More
 - O Level Science 5116 01 2014 Compatibility with Devices
 - o O Level Science 5116 01 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of O Level Science 5116 01 2014
 - Highlighting and Note-Taking O Level Science 5116 01 2014
 - o Interactive Elements O Level Science 5116 01 2014
- 8. Staying Engaged with O Level Science 5116 01 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers O Level Science 5116 01 2014
- 9. Balancing eBooks and Physical Books O Level Science 5116 01 2014
 - Benefits of a Digital Library
 - \circ Creating a Diverse Reading Collection O Level Science 5116 01 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine O Level Science 5116 01 2014
 - Setting Reading Goals O Level Science 5116 01 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of O Level Science 5116 01 2014
 - Fact-Checking eBook Content of O Level Science 5116 01 2014
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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