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 = $\frac{(24-120)}{(3-2)}$ = 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 = $\frac{Force}{Area} = \frac{40}{0.001 \times 4} = 10000 \text{ N/m}^2$
6	^	Major functions (and corresponding energy produced 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	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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Tao Wei

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