Practice Question Set For GCSE
Subject : Physics
Paper-1 Topic : 5_Light and Electromagnetic Spectrum

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Name of the Student:_____
Max. Marks : 17 Marks **Time : 17 Minutes**

Mark Schemes

Q1.

	Answer	**Acceptable answers**	**Mark**
(i)	☒ **A** on the finger		**(1)**
(ii)	infrared (1)	red light	**(1)**
(iii)	89/60 (1) 1.5 (beats/second) (1)	1.48 (beats/second) Allow 1.49 1.483333etc Accept correct answer no working for 2 marks	**(2)**
(iv)	1/1.5 (1) 0.67(s) (1)	ecf 1/ 89 one mark only Accept correct answer no working for 2 marks	**(2)**

Q2.

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Question Number	Answer	Acceptable answers	Mark
	conversion of time 4x60 (1) substitution (1) 1608 / (4x60) **ecf if conversion shown** evaluation (1) 6.7 (m/s)	award full marks for correct answer with no working [1608 / 4 for 1 mark for these two] **allow** 402 for 2 marks **accept** for 2 marks: 5.36 (t=300 s 60→120→180→240→300, i.e. 4 steps of 60) 4.02 (t=400 s based on the misconception of 100 s to 1 minute) **allow** maximum of 1 mark for any other power of 10 error if no working	**(3)**

Q3.

Question number	Answer	Additional guidance	Mark
	two minutes = 120 s (1) substitution (1) 26 400 ÷ 120 answer (1) 220 (m/s)	ecf unit change award full marks for correct numerical answer without working	**(3)**

Q4.

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Question number	Answer	Additional guidance	Mark
	substitution (x) =330 x 4.0 evaluation 1300 (m)	 accept 1320 (m) award full marks for correct answer without working.	**(2)** **AO2**

Q5.

Question Number	Answer	Additional guidance	Mark
	substitution (1) 0.8 =f x 4.0 rearrangement and evaluation (1) 0.2 (Hz) unit (1) Hz / s^{-1} / per sec	 (f =) $\frac{0.8}{4.0}$ allow correct substitution into seen incorrect rearrangement award 2 marks for the correct answer with no working accept hz or hertz independent mark accept recognisable spelling	**(3)** **AO2**

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