Eduqas Physics GCSE
Topic 6.1: Frequency range of the
spectrum
Mark Schemes for Questions by topic

1.

Question Number	Answer	Acceptable answers	Mark
2(a)(i)	X-ray	X	(1)

Question Number	Answer	Acceptable answers	Mark
2(a)(ii)	(visible) light	visible (waves)	(1)

Question	Answer	Acceptable answers	Mark
Number	CANA AND AND A	- North Chatter well (New York)	
2(a)(iii)	radio (waves)		(1)

Question Number	Answer	Acceptable answers	Mark
2(a)(iv)	gamma / X-rays / ultraviolet	X / UV	(1)

Question Number	Answer	Acceptable answers	Mark
2(b)	an explanation linking: • travel with same speed (1)	They travel at the speed of light / same numerical speed for all	
	• in a vacuum / in space (1)		(2)

2.

Question Number	Answer	Acceptable answers	Mark
3(a)(i)	C travel with the same speeds in a vacuum, have different frequencies		(1)

3.

Question Number	Answer	Acceptable answers	Mark
5(a)(i)	■ Seven		(1)

Question Number	Answer	Acceptable answers	Mark
5(a)(ii)	☑ C red, orange, yellow		(1)

(a)	rad	-
	1 -1 ()	

5.

(a) decreases

correct order only

1

2

increases

6.

(a) (i) frequency

wavelength

1

(ii) 10⁻¹⁵ to 10⁴

(b) $2.0 \times 10^{\circ}$ correct substitution of $3.0 \times 10^{\circ} / 1500$ gains 1 mark

Hz 1