

P1H Edexcel PiXL Mark Scheme November 2014

Question	Answer	Additional Guidance
1 (a)	From left to right: radio/infra-red/x-rays (3)	In that order Allow 1 mark for each correct, maximum 3
1 (b) (i)	Infra-red (1)	
1 (b) (ii)	Microwaves (1)	
1 (c)	Any 2 from: • Cancer • Kill cells • Burns to skin • Snow blindness	
	(2)	
1 (d)	Reflects certain wavelengths (1) of visible light (1)	
1 (e)	A gamma (1)	Score 0 marks if more than one box is crossed
(Total for Question 1 = 10 marks)		
2 (a) (i)	Arrows going away from ray box (1)	
2 (a) (ii)	Emerging ray drawn correctly parallel to the incident ray (1)	
2 (a) (iii)	C Refraction (1)	Score 0 marks if more than one box is crossed
2 (a) (iv)	Nothing/it would go straight through (1)	
2 (b)	• Fish drawn to the left of the apparent position (1) • Ray drawn from actual fish to surface and then refracted away from the normal (1) • To the eye of the fisherman (1)	Allow any position left The directional arrows are essential for maximum of 3 marks
(Total for Question 2 = 7 marks)		
3 (a) (i)	C expanding (1)	Score 0 marks if more than one box is crossed
3 (a) (ii)	Distance from earth/how far away the galaxy is (1) Speed it is travelling at (1)	
3 (b)	Cosmic microwave background radiation (1)	
3 (c)	B Why was the Universe created? (1)	
3 (d)	Frequency = Wave speed / wavelength (1) $3 \times 10^8 / 20$ (1) 1.5×10^7 or 15 000 000 (1)	Correct answer gains 3 marks with no working
3 (e)	Sound gets quieter (1) because pitch/frequency gets lower (1) due to the Doppler effect (1).	
(Total for Question 3 = 11 marks)		
4 (a)	C (1) as it uses the most energy (1)	
4 (b)	• Advantage – more efficient so uses less energy/costs less to run/contributes less to greenhouse gases (1) • Disadvantage - making new fridges uses up	Need to link into efficiency to gain the advantage mark

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