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
		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) 	The directional arrows are essential for maximum of 3 marks
	(Tota	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 x 10 ⁸ / 20 (1) 1.5 x 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).	
		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) 	Need to link into efficiency to gain the advantage mark
	 Disadvantage - making new fridges uses up 	

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Table of Contents Pixl November 2014 Mark Scheme

- 1. Understanding the eBook Pixl November 2014 Mark Scheme
 - The Rise of Digital Reading Pixl November 2014 Mark Scheme
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Pixl November 2014 Mark Scheme
 - 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 Pixl November 2014 Mark Scheme
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Pixl November 2014 Mark Scheme
 - Personalized Recommendations
 - Pixl November 2014 Mark Scheme User Reviews and Ratings
 - Pixl November 2014 Mark Scheme and Bestseller Lists
- 5. Accessing Pixl November 2014 Mark Scheme Free and Paid eBooks
 - Pixl November 2014 Mark Scheme Public Domain eBooks
 - Pixl November 2014 Mark Scheme eBook Subscription Services
 - Pixl November 2014 Mark Scheme Budget-Friendly Options

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

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