

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: <ul style="list-style-type: none"> • Cancer • Kill cells • Burns to skin • Snow blindness <p style="text-align: right;">(2)</p> | |
| 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) | <ul style="list-style-type: none"> • 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) | <ul style="list-style-type: none"> • 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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