

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 | |
| | (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) | <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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web aug 1 2018 share tools in this article we present a method to design a coil producing an arbitrarily shaped magnetic field by restricting the path of the coil's wires to a regular grid the solution is then found by a simple least squares minimum

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web two pairs of magnetic coils are usually placed near the entrance far end of the waveguide to bend the direction of electron beam radially and transversely these are called directional bending magnetic coils

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web the coil is bent at an acute angle at the center between the left and right wings the bending forces the coil to conform to the shape of the human head moreover it results in an increased depth of the induced electric fields in the brain

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web an electromagnetic coil is an electrical conductor such as a wire in the shape of a coil spiral or helix electromagnetic coils are used in electrical engineering in applications where electric currents interact with magnetic fields in devices such as electric motors generators inductors electromagnets transformers and

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web number of conductor turns in a coil is n magnetic field strength H 1 Oe 103.4 A/m 79.58 A/m mmf magnetic flux 1 Wb 1 Vs assignment design a 90 degree bending magnet for beam analysis with the duoplasmatron

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web where H is the strength of the magnetic field in ampere turns/metre n is the number of turns of the coil I is the current flowing through the coil in amps l is the length of the coil in metres m then to summarise the strength or intensity of a coil's magnetic field depends on the following factors the number of turns of wire within the coil

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