

Total marks: 100

Time: 1 hour 30 minutes

**Question 1**

- 1.1 B  
1.2 C  
1.3 C  
1.4 D  
1.5 A

(2 x 5 = 10)

**Question 2**

2.1.1 Transverse waves – movement of particle perpendicular to direction of movement of wave. (2)

$$2.1.2 \quad f = \frac{\text{Number of cycles}}{\text{Time}} = \frac{3}{1,5} = 2,0\text{Hz} \quad (3)$$

$$2.1.3 \quad v = f\lambda = 2 \times 0,05 = 0,1\text{m.s}^{-1} \quad (3)$$

2.1.4 The cork will bob up and down, since the water wave is a transverse wave and the particles move at  $90^\circ$  to the direction of motion of the wave.

In 1s the cork will experience two complete cycles since the frequency is 2Hz

In one cycle a particle will move a distance of 4 x the amplitude = 1,6 cm

So total distance travelled by the cork is  $2 \times 1,6 = 3,2$  cm (4)

2.2.1 The wavelength and frequency of an electromagnetic wave are inversely proportional to each other since  $f\lambda = c$ , a constant. (2)

$$\begin{aligned} 2.2.2 \quad f &= c + \lambda \\ &= 3 \times 10^8 + 500 \times 10^{-9} \\ &= 6 \times 10^{14} \text{ Hz} \end{aligned} \quad (3)$$

2.2.3 Visible light of a specific colour. (1)

2.2.4 A particle of light that contains a quantum of energy. (2)

$$\begin{aligned} 2.2.5 \quad E &= hf \\ &= 6,62 \times 10^{-34} \times 6 \times 10^{14} \\ &= 3,97 \times 10^{-19} \text{ J} \end{aligned} \quad (3)$$

2.2.6 i.) A beam of light appears will emerge from the device (laser) and strikes the detector (screen) in a single, narrow area. A single coloured region of light appears on the screen. (2)

ii.) The coloured light is spread out around a bright central region with dark regions (shadows) between smaller dimmer regions of coloured light. (2)

2.2.7 Diffraction of light or single slit diffraction of light. (1)

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