

1.1.4 An object with more electrons than protons will be:

- A Neutral
- B Negatively charged
- C Positively charged
- D Electronegatively charged

1.1.5 Example of a translucent object

- A clear glass
- B wax paper
- C ceramic mug
- D aluminium foil

1.1.6 Which of the following does NOT affect the shape of a shadow?

- A shape of the object
- B distance object from the light source
- C the position of the light source
- D the time that the light source is on

1.1.7 The variable referred to in the diagram as I below is known as the:



- A Incidental ray
- B Reflected ray
- C Angle of incidence
- D Angle of reflection

1.1.8 Effect when bringing TWO positively charged objects in contact with each other

- A attraction
- B repulsion
- C none
- D A and B

[3x1]

1.2 Provide the correct TERM for the following descriptions. Write ONLY the correct TERM next to the QUESTION NUMBER (1.2.1-1.2.5) on your answer sheet.

1.2.1 Substance that cannot conduct current.

1.2.2 Smallest working part of a battery.

1.2.3 Type of energy found in a battery.

1.2.4 A temporary magnet.

1.2.5 Number of waves that pass a certain point in one second.

[1x5]

1.3 Fill in the blanks of the following paragraph. Write only the WORDS next to the QUESTION NUMBER on your answer sheet.

Light is called waves because it travels in a regular repetitive pattern. The highest points are called peaks and the lowest points are called 1.3.1 _____. White light consists out of a spectrum of light. This spectrum of light consists of seven colours in the order 1.3.2 _____, orange, yellow, 1.3.3 _____, blue, indigo, violet.

Red has the 1.3.4 _____ wavelength and therefore the lowest 1.3.5 _____.

For us to observe a colour it has to be 1.3.6 _____. There are two types of reflection, 1.3.7 _____ reflection from a smooth surface and 1.3.8 _____ reflection from a rough surface.

[7]

1.4 Match the description in Column A to the term in Column B. Write only the LETTER next to the QUESTION NUMBER e.g. 1.4.5 G.

Column A	Column B
1.4.1 Objects that emit their own light	A Opaque
1.4.2 Breaking up of white light	B Translucent
1.4.3 Colour observed by an object that absorbs all frequencies	C Black
1.4.4 Objects that do not allow any light to pass through	D Luminous
	E Transparent
	F Dispersion

[6]

[Total Section A: 26]

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