

Q1.

(i) Use words from the box to complete the sentences below about ions.

absorbing	gaining	inner	losing	outer
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Atoms may form positive ions by electrons.

(2)

The electrons involved in forming positive ions are the electrons.

(Total for question = 2 marks)

Q2.

Alpha, beta and gamma are types of ionising radiation.
Explain how an atom becomes ionised by radiation.

(2)

Q3.

Explain how an atom becomes ionised by radiation.

(2)

(Total for Question is 2 marks)

Q4.

Figure 6 shows an atom of iron with its electron orbits.

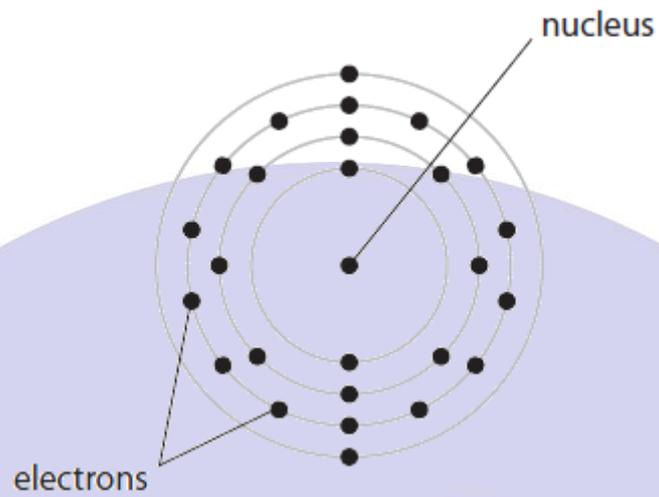


Figure 6

When iron is heated it glows red.

Explain what happens to the electrons during this process.

(3)

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(Total for question = 3 marks)

