Question 1

1(a)	**atom**(s) with the same number of protons(1) different numbers of neutrons (1)	**2**
1(b)	protons: 16 (1) neutrons: 20 (1) electrons: 18 (1)	**3**

Question 2

2(c)	electrons = 28 (1) neutrons = 34 (1)	**2**

Question 3

3(a)(ii)	**12** **12** **12 (1)** **12** **13** **12 (1)** **Mark by row**	**2**

Question 4

4(b)(i)	**M1** different **atoms** of the same element with the **same** number of **protons**(1) **M2 different** numbers of **neutrons**(1)	**2**

4(b)(ii)	**M1** 10 × 20 + 11 ×80 (= 1080)(1) **M2** (1080 ÷ 100 =) 10.8(1)	**2**

Question 5

5(c)(iii)	**M1** (6 × 10) + (7 × 90) (= 690) (1) **M2** 690 / 100 = 6.9 (1)	**2**

Question 6

6(a)	**M1** 5p and 5e (1) **M2** 6n (1)	**2**
6(b)(i)	20%	**1**