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**GCSE Combined Science**

**Student Answer Booklet**

**Quantitative**

**Contents:**

1. ANSWERS Multiple Choice Quiz
2. ANSWERS Exam Practice

**ANSWERS Multiple Choice Quiz**

1. **a**
2. **c**
3. **a**
4. **c**
5. **d**
6. **c**
7. **b**
8. **d**
9. **a**
10. **d**
11. **a**
12. **a**
13. **d**
14. **a**
15. **b**

**Quantitative ANSWERS Exam Practice**

**Question 1:**

(c)     C8H9NO2

*any order of elements*

**1**

151

**1**

(d)     mass of acetylsalicylic acid = 0.3 g

**1**

=

*method mark – divide mass by Mr*

**1**

= 0.00167 (mol)

*allow 0.0016666(66)*

**1**

1.67 × 10-3 (mol)

*correct answer with or without working scores****4****marks*

*allow ecf from steps1, 2 and 3*

**1**

**Question 2:**

(i)      58.5

**1**

(ii)     mole

**1**

**Question 3:**

(a)     because they are gases

*ignore vapours / evaporate / (g)*

*allow it is a gas*

**1**

(b)     (i)      80 / 79.5

*correct answer with or without working =****2****marks*

*ignore units*

*if no answer****or****incorrect answer then evidence of 64 / 63.5 + 16 gains****1****mark*

**2**

(ii)     80 / 79.87 / 79.9 / 79.375 / 79.38 / 79.4

*correct answer with or without working =****2****marks*

*if no answer****or****incorrect answer*

*then*

*evidence of****or****(x100) gains****1****mark*

*accept (ecf)*

*for****2****marks if correctly calculated*

*if incorrectly calculated*

*evidence of*

*gains****1****mark*

**2**

(iii)    3.2

*correct answer with or without working =****1****mark*

*allow (ecf)*

*4 x ((b)(ii)/100) for****1****mark if correctly calculated*

**1**

Question 4:

(a)     2Al   +   3H2SO4       Al2(SO4)3   +   3H2

*formulae correct*

**1**

*balancing correct*

**1**

(b)     40 + 2(14 + (3 × 16))

**1**

= 164

*allow 164 with no working shown for****2****marks*

**1**

(c)     (17.4 + 17.6 + 16.9) / 3

**1**

= 17.3

*allow 17.3 with no working shown for****2****marks*

**1**

**[6]**