

# Memorandum Grade 11 p/sciences

Physical Sciences Gr11/P2

2  
NSC

September

## QUESTION 1

1.1 A ✓✓

(2)

1.2 B ✓✓

(2)

1.3 C & ✓✓

(2)

1.4 B & ✓✓

(2)

1.5 C & ✓✓

(2)

1.6 D ✓✓

(2) ~~(10)~~ (12)

## QUESTION 2

2.1 The mass of one mole of a substance measured in  $\text{g}\cdot\text{mol}^{-1}$  ✓✓ (2 or 0)

(2)

2.2

Marking criteria		
(a) Any formula $m = nM$ or $N = nN_A$ ✓		
(b) Substitution of $3,114 \times 10^{24}$ and $6,02 \times 10^{23}$ into $N = nN_A$ ✓		
(c) Substitution of $1 \text{ g}\cdot\text{mol}^{-1}$ into $m = nM$ ✓		
(d) Mole ratio 3:6:1 ✓		
(e) $X = 3$ ✓, $Y = 6$ ✓, $Z = 1$ ✓		
C	H	O
$n = \frac{N}{N_A}$ ✓ $n = \frac{3,114 \times 10^{24}}{6,02 \times 10^{23}}$ ✓ $n = 5,173 \text{ mol}$	$n = \frac{m}{M}$ $n = \frac{10,345}{1}$ ✓ $n = 10,345 \text{ mol}$	$n = 1,724 \text{ mol}$
$\frac{5,173}{1,724} = 3$	$\frac{10,345}{1,724} = 6$	$\frac{1,724}{1,724} = 1$
3:6:1 ✓		
$X = 3$ ✓	$Y = 6$ ✓	$O = 1$ ✓

Accept values indicated in the empirical formula:  $\text{C}_3\text{H}_6\text{O}$  ✓✓✓

(7)

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**Léo Pomar**



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