

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)

Physical Sciences Memorandum Grade September

J Elliott



Physical Sciences Memorandum Grade September:

Physical Sciences Memorandum Grade September Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Physical Sciences Memorandum Grade September**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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