

1)

a	i	elastic potential energy and gravitational potential energy ✓	1	For elastic pe allow "pe due to tension", or "strain energy" etc.
a	ii	elastic pe → kinetic energy → gravitational pe → kinetic energy → elastic pe ✓✓ [or pe → ke → pe → ke → pe is ✓ only] [or elastic pe → kinetic energy → gravitational pe is ✓ only]	2	If kinetic energy is not mentioned, no marks. Types of potential energy must be identified for full credit.
b	i	period = 0.80 s ✓ during one oscillation there are two energy transfer cycles (or elastic pe → ke → gravitational pe → ke → elastic pe in 1 cycle) or there are two potential energy maxima per complete oscillation ✓	2	Mark sequentially.
b	ii	sinusoidal curve of period 0.80 s ✓ — cosine curve starting at $t = 0$ continuing to $t = 1.2$ s ✓	2	For 1 <sup>st</sup> mark allow ECF from $T$ value given in 3(i)(i).
c	i	use of $T = 2\pi\sqrt{\frac{m}{k}}$ gives $0.80 = 2\pi\sqrt{\frac{0.35}{k}}$ ✓ $\therefore k = \left(\frac{4\pi^2 \times 0.35}{0.80^2}\right) = 22 \text{ (21.6)} \checkmark \quad \text{N m}^{-1} \checkmark$	3	Unit mark is independent: insist on $\text{N m}^{-1}$ . Allow ECF from wrong $T$ value from (b)(i): use of 0.40s gives 88.4 ( $\text{N m}^{-1}$ ).
c	ii	maximum ke = $(\frac{1}{2}mv_{\text{max}}^2) = 2.0 \times 10^{-2}$ gives $v_{\text{max}}^2 = \frac{2.0 \times 10^{-2}}{0.5 \times 0.35} \checkmark \quad (= 0.114 \text{ m}^2\text{s}^{-2}) \quad \text{and } v_{\text{max}} = 0.338 \text{ (m s}^{-1}\text{)} \checkmark$ $v_{\text{max}} = 2\pi fA$ gives $A = \frac{0.338}{2\pi \times 1.25} \checkmark$ and $A = 4.3(0) \times 10^{-2} \text{ m} \checkmark$ i.e. about 40 mm [or maximum ke = $(\frac{1}{2}mv_{\text{max}}^2) = \frac{1}{2}m(2\pi fA)^2$ $\frac{1}{2} \times 0.35 \times 4\pi^2 = 1.25^2 \times A^2 = 2.0 \times 10^{-2} \checkmark$ $\therefore A^2 = \frac{2 \times 2.0 \times 10^{-2}}{4\pi^2 \times 0.35 \times 1.25^2} \checkmark \quad (= 1.85 \times 10^{-3})$ and $A = 4.3(0) \times 10^{-2} \text{ m} \checkmark$ i.e. about 40 mm ] [or maximum ke = maximum pe = $2.0 \times 10^{-2}$ (J) maximum pe = $\frac{1}{2}kA^2 \checkmark$ $\therefore 2.0 \times 10^{-2} = \frac{1}{2} \times 21.6 \times A^2 \checkmark$ from which $A^2 = \frac{2 \times 2.0 \times 10^{-2}}{21.6} \checkmark \quad (= 1.85 \times 10^{-3})$ and $A = 4.3(0) \times 10^{-2} \text{ m} \checkmark$ i.e. about 40 mm ]	4	First two schemes include recognition that $f = 1/T$ i.e. $f = 1/0.80 = 1.25 \text{ (Hz)}$ . Allow ECF from wrong $T$ value from (b)(i) – 0.40s gives $A = 2.15 \times 10^{-2} \text{ m}$ but mark to max 3. Allow ECF from wrong $k$ value from (c)(i) – 88.4 $\text{Nm}^{-1}$ gives $A = 2.15 \times 10^{-2} \text{ m}$ but mark to max 3.

2)

a		acceleration is proportional to displacement (from equilibrium) ✓ acceleration is in opposite direction to displacement or towards a fixed point/equilibrium position ✓	2	Acceleration proportional to negative displacement is 1 <sup>st</sup> mark only. Don't accept "restoring force" for acc'n.
b	i	$f = \frac{1}{2\pi\sqrt{\frac{x}{l}}} = \frac{1}{2\pi\sqrt{\frac{9.81}{0.984}}} \checkmark \quad = 0.503 \text{ (0.5025) (Hz)} \checkmark$ [ or $f = \frac{1}{2\pi\sqrt{\frac{l}{x}}} = \frac{1}{2\pi\sqrt{\frac{0.984}{9.81}}} \checkmark \quad (= 1.9(90) \text{ (s)})$ $f = \left(\frac{1}{T}\right) = \frac{1}{1.990} = 0.503 \text{ (0.5025) (Hz)}$ ✓ ] answer to 3SF ✓	3	3SF is an independent mark.  When $x = 9.81$ is used, allow either 0.502 or 0.503 for 2 <sup>nd</sup> and 3 <sup>rd</sup> marks.  Use of $g = 9.8$ gives 0.502 Hz; award only 1 of first 2 marks if quoted as 0.502, 0.503 0.50 or 0.5 Hz.
b	ii	$a = -(2\pi f)^2 x = -(2\pi \times 0.5025)^2 \times 42 \times 10^{-2} \checkmark$ $= 0.42 \text{ (0.419) (m s}^{-2}\text{)} \checkmark$	2	Allow ECF from any incorrect $f$ from (b)(i).

# Phya4 2014 Mark Scheme

**CL Gary**



## **Phya4 2014 Mark Scheme:**

## Decoding **Phya4 2014 Mark Scheme**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Phya4 2014 Mark Scheme**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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