

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 $t = 1.2s$ ✓	2	For 1 st mark allow ECF from T value given in 3(i)(i).
c	i	use of $T = 2\pi\sqrt{\frac{m}{k}}$ gives $0.80 = 2\pi\sqrt{\frac{0.35}{k}}$ ✓ $\therefore k = \frac{4\pi^2 \times 0.35}{0.80^2} = 22 \text{ (21.6)} \text{ ✓ } \text{N m}^{-1} \text{ ✓}$	3	Unit mark is independent: insist on N m^{-1} . Allow ECF from wrong T value from (b)(i): use of 0.40s gives 88.4 (N m^{-1}).
c	ii	maximum ke = $(\frac{1}{2}mv_{\text{max}}^2) = 2.0 \times 10^{-2}$ gives $v_{\text{max}}^2 = \frac{2.0 \times 10^{-2}}{0.5 \times 0.35} \text{ ✓ } (= 0.114 \text{ m}^2\text{s}^{-2}) \text{ and } v_{\text{max}} = 0.338 \text{ (m s}^{-1}\text{) ✓}$ $v_{\text{max}} = 2gA$ gives $A = \frac{0.338}{2 \times 9.81} \text{ ✓}$ and $A = 4.3(0) \times 10^{-2} \text{ m } \text{ ✓ } \text{ i.e. about 40 mm}$ [or maximum ke = $(\frac{1}{2}mv_{\text{max}}^2) = \frac{1}{2}m(2\pi fA)^2$ ✓ $\frac{1}{2} \times 0.35 \times 4\pi^2 \times 1.25^2 \times A^2 = 2.0 \times 10^{-2} \text{ ✓}$ $\therefore A^2 = \frac{2 \times 2.0 \times 10^{-2}}{4\pi^2 \times 0.35 \times 1.25^2} \text{ ✓ } (= 1.85 \times 10^{-3})$ and $A = 4.3(0) \times 10^{-2} \text{ m } \text{ ✓ } \text{ i.e. about 40 mm}$ [or maximum ke = maximum pe = 2.0×10^{-2} (J) maximum pe = $\frac{1}{2}kA^2 \text{ ✓}$ $\therefore 2.0 \times 10^{-2} = \frac{1}{2} \times 21.6 \times A^2 \text{ ✓}$ from which $A^2 = \frac{2 \times 2.0 \times 10^{-2}}{21.6} \text{ ✓ } (= 1.85 \times 10^{-3})$ and $A = 4.3(0) \times 10^{-2} \text{ m } \text{ ✓ } \text{ i.e. about 40 mm}$	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 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 st mark only. Don't accept "restoring force" for accin.
b	i	$f = \frac{1}{2\pi\sqrt{\frac{x}{l}}} = \frac{1}{2\pi\sqrt{\frac{9.81}{0.984}}} \text{ ✓ } = 0.503 \text{ (0.5025) (Hz) ✓}$ [or $f = \frac{1}{2\pi\sqrt{\frac{l}{x}}} = \frac{1}{2\pi\sqrt{\frac{0.984}{9.81}}} \text{ ✓ } (= 1.9(90) \text{ (s)})$ $f = \frac{1}{T} = \frac{1}{1.990} = 0.503 \text{ (0.5025) (Hz)}$ ✓] answer to 3SF ✓	3	3SF is an independent mark. When $x = 9.81$ is used, allow either 0.502 or 0.503 for 2 nd and 3 rd 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	$a = -(2\pi f)^2 x = -(2\pi \times 0.5025)^2 \times 42 \times 10^{-2} \text{ ✓}$ $= 0.42 \text{ (0.419) (m s}^{-2}\text{) ✓}$	2	Allow ECF from any incorrect f from (b)(i).

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The Top Books of the Year Phya4 2014 Unofficial Mark Scheme The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. Phya4 2014 Unofficial Mark Scheme :

Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed.

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Phya4 2014 Unofficial Mark Scheme : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting.

These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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