

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 $0.80 = 2\pi\sqrt{\frac{0.35}{k}}$ ✓ $\therefore k = \left(\frac{4\pi^2 \times 0.35}{0.80^2}\right) = 22 \text{ (21.6)} \text{ ✓ } \text{N m}^{-1} \text{ ✓}$	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 $v_{\text{max}}^2 = \frac{2.0 \times 10^{-2}}{0.5 \times 0.35} \text{ ✓ } (= 0.114 \text{ m}^2\text{s}^{-2}) \text{ and } v_{\text{max}} = 0.338 \text{ (m s}^{-1}\text{)} \text{ ✓}$ $v_{\text{max}} = 2gA$ gives $A = \frac{0.338}{2 \times 9.81} \text{ ✓}$ and $A = 4.3(0) \times 10^{-2} \text{ m} \text{ ✓ i.e. about 40 mm}$ [or maximum ke = $(\frac{1}{2}mv_{\text{max}}^2) = \frac{1}{2}m(2\pi fA)^2$ ✓ $\frac{1}{2} \times 0.35 \times 4\pi^2 = 1.25 \times A^2 = 2.0 \times 10^{-2} \text{ ✓}$ $\therefore A^2 = \frac{2 \times 2.0 \times 10^{-2}}{4\pi^2 \times 0.35 \times 1.25} \text{ ✓ } (= 1.85 \times 10^{-3})$ and $A = 4.3(0) \times 10^{-2} \text{ m} \text{ ✓ i.e. about 40 mm}$ [or maximum ke = maximum pe = $2.0 \times 10^{-2}$ (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 $A = 4.3(0) \times 10^{-2} \text{ m} \text{ ✓ i.e. about 40 mm}$	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	$f = \frac{1}{2\pi\sqrt{\frac{x}{l}}} = \frac{1}{2\pi\sqrt{\frac{9.81}{0.984}}} \text{ ✓ } = 0.503 \text{ (0.5025) (Hz)} \text{ ✓}$ [ or $f = \frac{1}{2\pi\sqrt{\frac{l}{x}}} = \frac{1}{2\pi\sqrt{\frac{0.984}{9.81}}} \text{ ✓ } (= 1.9(90) \text{ (s)})$ $f = \left(\frac{1}{T}\right) = \frac{1}{1.990} = 0.503 \text{ (0.5025) (Hz)}$ ✓ ] answer to 3-SF ✓	3	3-SF 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	$a = -(2\pi f)^2 x = -(2\pi \times 0.5025)^2 \times 42 \times 10^{-2} \text{ ✓}$ $= 0.42 \text{ (0.419) (m s}^{-2}\text{)} \text{ ✓}$	2	Allow ECF from any incorrect $f$ from (b)(i).

# Phya4 Unofficial Mark Scheme

**DP Hallahan**



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