## 1)

		elastic potential energy and gravitational potential energy -	13	For elastic pe allow "pe due to tension", or "etrain energy" etc
**		electic pe kinetic energy gravitational pe 	2	If kilnetic energy is not mentioned, no marks. Types of potential energy must be identified for full credit.
b.		period = 0.80 s. <li>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 </li>	2	Mark sequentially.
ь		sinusoidal curve of period 0.80 s   - cosine curve starting at t = 0 continuing to t = 1.2s   -	2	For 1" mark allow ECF from T value given in 3(500).
e:	1	use of $T = 2\pi \sqrt{\frac{m}{k}}$ gives $0.80 = 2\pi \sqrt{\frac{0.35}{k}}$ $A \left( = \frac{4\pi^{+} \times 0.35}{0.80^{2}} \right) = 22 (21.6) \times N = 1.7$	э	Unit mark is independent insist on N m.". Allow ECF from wrong T value from (b)(i) use of 0.40s gives 86.4 (N m.").
c		maximum to = (16 m/v <sub>cm</sub> ²) = 2.0 × 10 ° gives $v_{cm}² = \frac{2.0 \times 10^{-1}}{0.5 \times 0.35} \checkmark (= 0.114 \text{ m²s²}) \text{ and } v_{cm} = 0.336 \text{ (m s²}) \checkmark$ $v_{cm} = 20/4 \text{ gives } A = \frac{0.338}{2s \times 1.25} \checkmark$ $\text{and } A = 4.3(0) = 10 ° \text{m} \checkmark \text{ i.e. about 40 mm}$ [or maximum to = (16 m/v <sub>cm</sub> ²) = 76 m (2s.54)² $\checkmark$ $16 = 0.35 \times 4s² = 1.25° \times A² = 2.0 \times 10° \checkmark$		First two schemes include recognition that $f = 1/T$ i.e. $f = 10.80 = 1.25$ (Hz).  Allow ECF from wrong $T$ value from $(b)(0) = 0.40s$ gives $A = 2.15 \times 10^{-7}m$ but mark to max 3.  Allow ECF from wrong a value from $(c)(0) = 0.40s$
		$A^2 = \frac{2 \times 2.0 \times 10^{-3}}{4 \text{ s}^2 \times 9.35 \times 1.25^2} \qquad (= 1.86 \times 10^{-3})$ and $A = 4.3(0) = 10^{-3} \text{ m} \qquad \text{i.e. about 40 mm} ]$ for maximum his = maximum pq = $2.0 \times 10^{-3} (2)$ maximum pc = $3 \times 4 \times A^2 \times 10^{-3} (2)$ from which $A^2 = \frac{2 \times 2.0 \times 10^{-3}}{21.6} \times (= 1.85 \times 10^{-3})$ and $A = 4.3(0) = 10^{-3} \text{ m} \times \text{i.e. about 40 mm} ]$		86.4Nm <sup>2</sup> gives A = 2.15 = 10 <sup>4</sup> m but mark to max 3.

## 2)

•		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" mark only.  Don't accept 'restoring force' for accit
ь	i i	$f\left(-\frac{1}{2\pi}\sqrt{\frac{g}{f}}\right) - \frac{1}{2\pi}\sqrt{\frac{9.81}{0.984}}  = 0.503 \ (0.5025) \ (Hz)  \checkmark$ $[\text{ or } T\left(-2\pi\sqrt{\frac{f}{g}}\right) - 2\pi\sqrt{\frac{0.984}{9.81}}  \checkmark  (= 1.9(90) \ (s))$ $f\left(-\frac{1}{T}\right) - \frac{1}{1.990} = 0.503 \ (0.5025) \ (Hz)$ $\checkmark  ]$ answer to 3SF $\checkmark$	3	3SF is an independent mark.  When $g = 9.81$ is used, allow either 0.502 or 0.503 for 2" and 3" 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.
ь		a((2 m/)" a)-(-)(2 m × 0.5025)" × 42 × 10"" */ = 0.42 (0.419) (m m *) */	2	Allow ECF from any incorrect / from (b)(r).

# **Phya4 2014 Mark Scheme**

**Annelies Wilder-Smith** 

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