

Answers to examination-style questions

Answers	Marks	Examiner's tips
1 (a) $v_{\text{esc}} = \sqrt{2gR}$ $= (2 \times 1.62 \times 1740 \times 10^3)^{1/2}$ $= 2400 \text{ m s}^{-1}$ (2370 m s ⁻¹ to 3 sig figs)	1 1	
(b) (i) Mean kinetic energy = $\frac{3}{2}kT$ $= 1.5 \times 1.38 \times 10^{-23} \times 400$ $= 8.3 \times 10^{-21} \text{ J}$	1 1	
(ii) Mass of an oxygen molecule $m =$ molar mass/ N_A $= \frac{0.032}{6.02 \times 10^{23}} \text{ kg}$ Rearranging $\frac{3}{2}m\overline{c_{\text{rms}}}^2 = 8.3 \times 10^{-21} \text{ J} \dots$ gives $\overline{c_{\text{rms}}}^2 = \frac{2 \times 8.3 \times 10^{-21}}{0.032/6.02 \times 10^{23}}$ $= 560 \text{ m s}^{-1}$	1 1	
(iii) Gas molecules have a range of speeds (or kinetic energies)	1	
<ul style="list-style-type: none"> • The escape speed from the lunar surface is about 4 × the rms speed of the gas molecules • Some gas molecules would have sufficient kinetic energy (or speed) to escape from the lunar surface • Each day more gas molecules would escape • As they would gain kinetic energy from the hot surface 	any 2	
(c) (i) <ul style="list-style-type: none"> • Absorption lines are due to the absorption of light of certain wavelengths • The lines were observed only when the planet passed across the face of the star • If the star had caused the absorption lines, they would have been present all the time (∴ the planet must have absorbed light at these wavelengths) 	6 marks max	

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B Lingard



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