

Multiple Choice Answers

Q17: A

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Q16: A

Multiple Choice Answers

Q18: D

5(a)(i)	transpiration / diffusion ;
5(a)(ii)	<i>any five from:</i> <i>comparison</i> 1 both lose mass ; 2 higher humidity, less water vapour is lost ; 3 ref. to steeper rate / greater water lost, initially (for both groups) ; 4 comparative data quote with units ; <i>explanation for high humidity</i> 5 (higher humidity) greater amount of water vapour in the atmosphere ; 6 reduced water potential, gradient ; 7 less water vapour lost, through stomata / between guard cells ;
5(a)(iii)	line drawn on the graph above the low humidity line ;
5(b)(i)	<i>any three from:</i> glands in the skin produce sweat ; sweat on (the surface of) the skin evaporates ; using / AW, heat / energy (from the body) ; (internal) body temperature, decreases / returns, to a set point ; ref. to homeostasis / negative feedback ;
5(b)(ii)	expiration / AW ;

3(a)(i)	axes labelled with units ; suitable linear scale and plotted area occupies at least half the grid in both directions ; all points plotted accurately $\pm$ half a small square ; suitable line drawn between all points plotted ;
3(a)(ii)	as the height increases the vital capacity increases / AW ;
3(a)(iii)	any indication on graph at 175 cm OR indication of correct value on the vital capacity axis ; correct value recorded from the candidate's graph ;
3(b)	biuret (reagent) ;

2(a)	<i>any three from:</i> large surface area ; thin, (wall / surface,) / short diffusion distance / one cell thick ; good blood supply / network of capillaries ; good ventilation (with air) ;
2(b)(i)	P and S ;
2(b)(ii)	keeps the trachea / bronchi / airway open OR prevents collapse of trachea / bronchi / airway ;
2(c)(i)	$C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$;;
2(c)(ii)	<i>any three from:</i> 1 increased carbon dioxide in blood ; 2 (high) carbon dioxide (in blood) detected by the brain ; 3 increases <u>impulses</u> to (named) muscles used in breathing / AW ; 4 increases contraction of (named) muscles used in breathing ; 5 adrenaline is released ; 6 to increase rate and depth of breathing ;

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