

Multiple Choice Answers

Q5: D

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) ;

1(a)(i)	table drawn with a minimum of two columns and a header line ; appropriate column / row headings, with units for height ; recording two (final) heights ; (1%) 13 ± 1 (mm) and (4%) 23 ± 1 (mm) recorded ;
1(a)(ii)	the higher concentration (of glucose solution) the, greater / faster, the (rate of) respiration (in yeast) ; ora
1(a)(iii)	<i>independent variable</i> : concentration of glucose ; <i>dependent variable</i> : height (of the yeast in the large test-tube) ;
1(a)(iv)	(use a) thermostatically controlled water-bath / AVP ;
1(a)(v)	to avoid, contamination / AW ;
1(b)	<i>glucose</i> : 3 (cm ³) and <i>distilled water</i> : 2 (cm ³) ;
1(c)	add Benedict's (reagent) ; heat ;
1(d)(i)	cloudy / white / milky ;
1(d)(ii)	<i>any one from</i> : keep away from, flames / fire / Bunsen / burner ; cover the container (to prevent evaporation) ; (use in a) well-ventilated area / fume cupboard / AW ; wear goggles ;

1(a)	thermometer ;
1(b)	table drawn with a minimum of two columns and a header line ; appropriate column / row headings ; three colours recorded correctly for tubes A , B and W ;
1(c)	the greater the (invertase/enzyme) concentration the greater the concentration of, reducing sugars / glucose, produced ; ora
1(d)	as a <u>control</u> ; idea that, water does not break down sucrose / sucrose does not break down on its own ;
1(e)	concentration of invertase/enzyme (extract) ;
1(f)	<i>any one from:</i> to make sure test-tubes are at the same temperature ; to give a sufficient / high rate of reaction / AW ; so that the test-tubes are at the same temperature as the water-bath ;
1(g)	to prevent contamination / AW ;
1(h)	biuret ;

Multiple Choice Answers

Q7: A