

Multiple Choice Answers

Q3: A

Multiple Choice Answers

Q4: B

2(a)(i)	Outline – single clear line, no shading ; Size – height bigger than 84 mm ; Detail 1 ; textured point at tip Detail 2 ; shape of cupule (drawn with a dip at the top right side and left pointing-stalk)
2(a)(ii)	84±1 (mm) ; 25 (mm) ; ;
2(a)(iii)	<i>any two from;</i> <i>Turkey oak has:</i> flatter top of nut ; less nut above cupule / AW ; spines on the cupule / AW ; does not have a stalk / AW ; lighter colour ;
2(b)(i)	<i>any two from;</i> same type of soil ; lack of light ; temperature ; timing of watering ; time allowed for germination ; number of acorns from each species ;

2(b)(ii)	two y-axes OR one y-axis, with appropriate scale for both datasets and units, and one x-axis labelled ; suitable scale and occupies at least half the grid in both directions ; six bars plotted accurately ± half a small square, with gaps between the different species ; key that clearly identifies each dataset ;
2(b)(iii)	(to obtain a) representative sample / avoid bias ;
2(b)(iv)	62.2(%) ;
2(c)	biuret ;

3(a)(i)	27 ; ;
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3(a)(ii)	<i>any three from:</i> 1 ref to solvent / described ; 2 for digestion / named example ; 3 for excretion / named example ; 4 for transport / named example ; 5 temperature regulation ; 6 support, cells / tissues ; 7 AVP ;
3(b)(i)	L cell membrane ; M ribosome ;
3(b)(ii)	<i>any two from:</i> cell wall ; circular DNA ; plasmid(s) ; AVP ;;
3(b)(iii)	bacterium ;
3(b)(iv)	<i>Vibrio</i> ;
3(b)(v)	<i>any three from:</i> cholera produces a toxin that causes secretion of chloride ions, into, (small) intestine / gut or out of the small intestine cells ; causing osmotic movement of water into the, gut / (small) intestine or out of the (small intestine) cells ; causing diarrhoea / described ;
3(b)(vi)	sticky ends ; (DNA) ligase ; recombinant ;