

10BA ASSESSMENT SCHEDULE 2014

/ means OR eg. green / blue – answer needs green OR blue  
 ( ) means additional, not really required eg. Gauze (mat) – gauze would be sufficient  
 : means AND eg. red : hot - answer needs red and hot.

Question		Evidence	Marks
1	(a)	B	1 mark
	(b)	C	1 mark
	(c)	The temperature dropped more/by 25°C for the water in the outside tube or dropped less/by 7°C for the water in the inside tube.	1 mark
2	(a)	(i) A (ii) D	½ mark each
	(b)	<ul style="list-style-type: none"> <li>The stigma is not feathery/ enclosed in the petals</li> <li>The anther is not loosely hanging outside the petals</li> </ul>	½ mark for each idea
	(c)	Reduced competition for resources such as light, space, nutrients and water (at least 2 named resources for 1 mark)	1 mark
	(d)	By animals because it has hooks	1 mark
3	(a)	Arrows correctly drawn for each half	1 marks
	(b)	A right atrium B left ventricle	½ mark each
	(c)	Because the body <u>needs energy</u> when exercising, and the <u>heart pumps oxygenated blood to the cells</u> for it the convert stored food into energy	1 mark
	(d)	B 1 because B has a lower pulse before and during the activity 2 because B reaches the resting pulse before A	1 mark each for the reasons
4	(a)	D	½ mark each
	(b)	B	
	(c)	C	
	(d)	A	
5	(a)	C water oxygen no light D no water oxygen no light E water no oxygen no light	2 rows correct ½ mark All correct 1 mark
	(b)	<ul style="list-style-type: none"> <li><u>Water and oxygen are BOTH needed for germination</u> AND <u>light is not needed</u> because</li> </ul>	2 marks

		<ul style="list-style-type: none"> <li>Seeds <u>germinated when light was not present</u> but did not <u>germinate when water and oxygen is not present</u></li> </ul>	
6	(a)	2	½ mark
	(b)	Oxygen	½ mark
	(c)	2,8,1	1 mark
	(d)	<ul style="list-style-type: none"> <li>it has the <u>same number of protons</u> (positively charged particles) and <u>electrons</u> (negatively charged particles).</li> <li>The <u>charges are balanced</u>.</li> </ul>	1 marks
7	(a)	Radiation	½ mark
	(b)	<ul style="list-style-type: none"> <li>it is a good reflector and therefore does not absorb heat/ it radiates heat</li> <li>this prevents the firefighter from getting too hot</li> </ul>	½ mark for each point
	(c)	B Because its <u>temperature increases slowly</u> and it <u>does not get too hot</u>	½ mark 1 mark
8	(a)	Correct plot Smooth curve	1 mark ½ mark
	(b)	Volume (mL)	½ mark
	(c)	15 s (unit required for full mark)	1 mark
9	(a)	It only shows whether a substance is acidic or alkali. It turns blue with and alkali or remains red with and acid/neutral	1 mark
	(b)	It changes colour with different substances	1 mark
	(c)	Because UI <u>changes a different colour with a strong and a weak acid whereas red cabbage indicator changes red with both</u>	1 mark
10	(a)	(i) It gets attracted to/moves towards the soft iron core (ii) it falls back	½ mark each
	(b)	Because iron is a magnetic material	1 mark
11	(a)	(i) U and Z (ii) V (iii) X / Y	½ mark each ½ mark ½ mark
	(b)	B <ul style="list-style-type: none"> <li>it has no canines which is used for tearing meat, and herbivores only eat plant</li> <li>it has ridged molars/ premolars for grinding the plant matter</li> </ul>	1 mark each
12	(a)	Thick layer of rock	½ mark
	(b)	Crust	½ mark
13	(a)	<ul style="list-style-type: none"> <li>Mix the soil in water</li> <li>Filter the mixture and get a clear filtrate/solution</li> </ul>	½ mark each

	(b)	Use universal indicator solution	½ mark
	(c)	Mix it in water and if it forms a clear solution, it is soluble.	1 mark
	(d)	When the gas is added to limewater, the limewater turns cloudy	½ mark
14	(a)	Photograph it	½ mark
	(b)	C	½ mark
15	(a)	The switch is connected in a parallel arrangement with the bell	1 mark
	(b)	on off up down	½ mark each
16	(a)	U and Y	1 mark
	(b)	Older fossils are usually found in deeper rocks and Fossils are never found in igneous rocks	½ marks each
	(c)	Same as fossil drawn in layer S	1 mark
17	(a)	It softens	1 mark
	(b)	Cross – linked molecules	1 mark
	(c)	High strength/ strong polymer	1 mark
	(d)	Pigments	1 mark
18		V – rectum W – liver X – oesophagus Y – pancreas	½ mark each
19	(a)	Carbohydrates	½ mark each
	(b)	Calcium	
	(c)	Fibre	
	(d)	Fats	
20	(a)	Tissue	½ mark
	(b)	Organ	½ mark
	(c)	Layer B and Layer C	1 mark
	(d)	Because it contains chloroplasts (chlorophyll)	1 mark

21	(a)	Electrons, protons, nucleus, neutron	½ mark each
	(b)	(i) 11 (ii) 23 (iii) 12	½ mark ½ mark 1 mark
22	(a)	B	1 mark
	(b)	Scar tattoo	½ mark each
23	(a)	Positive	1 mark
	(b)	Electrons	1 mark
	(c)	The <u>positive charge</u> on the hair is <u>attracted</u> to the <u>negative charge</u> on the balloon	1 mark
24	(a)	(i) Coeliac disease	½ mark
		(ii) Thai beef salad Tomato and feta tarts	1 mark
	(b)	Fig and apricot crunch	½ mark
	(c)	Bloating, nausea and abdominal pain	1 mark
25	(a)	Warmed up	1 mark
	(b)	Tectonic	1 mark
	(c)	Convection	1 mark
	(d)	Volcanic eruptions	1 mark
26	(a)	(i) S S N (ii) S N S	1 mark 1 mark
		(b)	Size of the magnet Size of each The number of masses put on each tower
	(c)	Bar correctly drawn at 700g	½ mark
27	(a)	Photosynthesis	1 mark
	(b)	Chlorophyll	1 mark
	(c)	Starch	1 mark
28	(a)	Metamorphic	1 mark
	(b)	Igneous	1 mark

	(c)	larger	1 mark
29	(a)	(i) light (ii) support	1 mark each
	(b)	No light	1 mark
30		Electrical circuit	½ mark each
		1	
		2	
		3	
		circuit diagram	
		3	
		4	
		1	
		2	
31	(a)	Fossil	½ mark
	(b)	Starfish	½ mark
	(c)	The imprint on the chalk rock is shaped like a star	1 mark