

DRAFT 1
10 BC ASSESSMENT SCHEDULE

/ 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"> • The stigma is not feathery/ enclosed in the petals • The anther is not loosely hanging outside the petals 	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"> Water and oxygen are BOTH needed for germination AND light is not needed because Seeds germinated when light was not present but did not germinate when water and oxygen is not present 	2 marks
6	(a)	2	½ mark
	(b)	Oxygen	½ mark
	(c)	2,8,1	1 mark
	(d)	<ul style="list-style-type: none"> it has the same number of protons (positively charged particles) and electrons (negatively charged particles). The charges are balanced. 	1 marks
7	(a)	Radiation	½ mark
	(b)	<ul style="list-style-type: none"> it is a good reflector and therefore does not absorb heat/ it radiates heat this prevents the firefighter from getting too hot 	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)	<p>B</p> <ul style="list-style-type: none"> it has no canines which is used for tearing meat, and herbivores only eat plant it has ridged molars/ premolars for grinding the plant matter 	1 mark each
12	(a)	Thick layer of rock	½ mark
	(b)	Crust	½ mark
13	(a)	<ul style="list-style-type: none"> Mix the soil in water Filter the mixture and get a clear filtrate/solution 	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	(a)	B	1 mark

	(b)	<u>Longer intestine</u> in a rabbit because plant matter takes a long time to get broken down into absorbable molecules. <u>Large caecum</u> in a rabbit because it contains bacteria to breakdown cellulose Dog's diet consists of protein which is mostly digested in the stomach and absorbed in the intestine. Therefore it does not have a long intestine	2 marks
19	(a)	8	1 mark
	(b)	200	1 mark
	(c)	R	1 mark
	(d)	It has no stomata on the upper surface which reduces direct evaporation of water from the leaf	1 mark
20	(a)	Control experiment for comparison	1 mark
	(b)	Aluminium foil is the best insulating material and black paper is the worst	1 mark
	(c)	Black paper <u>absorbs</u> best and ice – cube melt faster compared to aluminium foil which is a good heat <u>reflector</u> and takes longer for the ice cube to melt	1 mark
21	(a)	Radiation	½ mark
	(b)	Because the black side will absorb heat and the white side will not	1 mark
	(c)	1.2 hours	½ mark
	(d)	Temperature <u>increases quickly</u> for the first hour and a half then it <u>slows down</u>	1 mark
	(e)	Correctly drawn curve/ steeper curve for the first hour	1 mark
22	(a)	Pond weed size (number of leaves, length) Volume of water in the beaker and the tube Amount of light available	1 mark
	(b)	<u>Number of bubbles</u> <u>Time taken</u> for the number of bubbles to form	1 mark
	(c)	Temperature	1 mark
	(d)	Carbon dioxide available in the water It is used up during photosynthesis	1 mark
23	(a)	Magma underground	½ mark

	(b)	Larger crystals underground because it cools down slowly Smaller crystals on the surface because it cools down quickly	1 mark
	(c)	High temperature and pressure	½ mark
24	(a)	Calcium oxide + <u>water</u> → <u>calcium hydroxide</u>	½ mark each
	(b)	The button needs to be pressed for it to heat the drink Insulated walls stop the outside of the can from getting too warm	1 mark each
25		<ul style="list-style-type: none"> • <u>Lipase</u> breaks down fats into <u>fatty acids and glycerol</u> • Lipase is present in the <u>duodenum</u> (ideal pH for it to break down the fats) • <u>Bile</u> is released in the duodenum to <u>increase the pH</u> of the acidic chyme • It <u>emulsifies</u> the fat i.e breaks it up into small globules therefore increasing the surface area of the fat • This increases the rate of reaction and the enzyme lipase breaks down fats into its simplest form for easy absorption into the bloodstream. <p><i>Underlined ideas must be included in the answer for full marks.</i></p>	5 marks
26	(a)	(i) Coeliac disease	1 mark
		(ii) Thai beef salad Tomato and feta tarts	1 mark
	(b)	Fig and apricot crunch	1 mark
	(c)	Bloating, nausea and abdominal pain (all 3 needed for full mark)	1 mark
	(d)	Starter Vegetable tartlets Main Course Bean and green pepper salad Dessert Fig and apricot crunch	1 mark
27	(a)	Green leaves	1 mark
	(b)	Yellow leaves Red leaf bases	1 mark
	(c)	Magnesium	1 mark
	(d)	D	1 mark
28	(a)	Lower	1 mark
	(b)	2 x 150 x 20 = 6000 1 mark for working and 1 for the answer	2 marks