Anglo-Chinese School (Junior)



BITE-SIZED ASSESSMENT 3 (2022) PRIMARY 5 SCIENCE

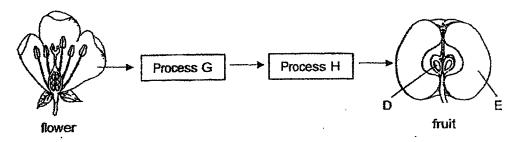
23 August 2022

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Nan	ne:() Class: 5.() Parent's Signature:
INS	TRUCTIONS TO PUPILS
1	Do not turn over the pages until you are told to do so.
2	Follow all instructions carefully.
3	There are 11 questions in this booklet.
4	Answer ALL questions.
5	The marks are given in the brackets [] at the end of each question or part question

Tuesday

Question	Possible	Marks
Paper	Marks	Obtained
Total	30	

 The diagram shows how a fruit is formed from the flower of a plant. The fruit has been cut open.



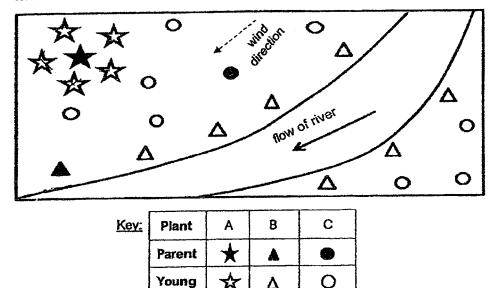
(a)	State and describe process G.	[1]
(b)	State and describe process H.	[1]
(c)	State the part of the flower that D and E developed from.	[1]
	D:	

2. The table shows the characteristics of three different plants A, B and C.

Plant	Does it have flowers?	Can the flower develop into a fruit?	Length of petals (cm)	Does it have nectar?
A	Yes	Yes	6	No
В	Yes	No	2	No
С	Yes	Yes	6	Yes

(a)	The flower of plant B cannot develop into a fruit. Give a possible reason.	[1
(b)	Which plant can best attract pollinators? Give a reason for your answer.	_ [1]

 Samuel drew a diagram to show three different types of plants, A, B, and C, in a forest.



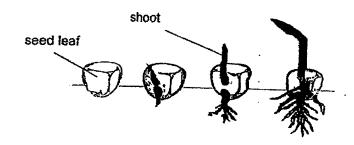
(a)	Samuel drew the position of a parent plant wrongly. Circle the parent plant in the diagram above that is in the wrong position and give a reason for your answer.		

(b) State the method of seed/fruit dispersal of plants A, B and C in the table. [1]

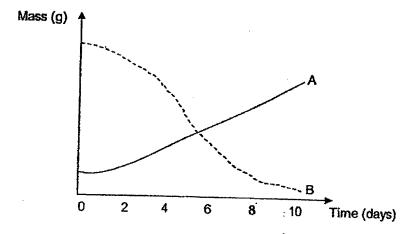
Plant	Method of dispersal
Α	
В	
С	

(c).	Describe how the characteristic of the seed/fruit of Plant A helps in its dispersal.					[1]
	·		<u> </u>			
	•					

The diagram shows a germinating seed.



The graph shows the changes in the mass of the seed leaf and the shoot over a period of time.

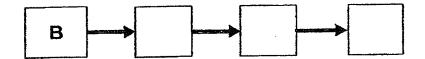


(a)	Which line, A or B, shows the change in the mass of the seed leaf? Explain your answer.	[1]
•		

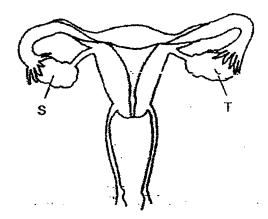
(b) Another seed was placed in a pot of dry soil and left in the dark comer of the living room. What would be observed about the seed after 10 days? Give a reason for your answer.

[1]

- 5. The statements, A, B, C and D, describe the reproduction in humans.
 - A: Organs of the developing baby begin to form.
 - B: Many sperms reach the egg.
 - C: One sperm fuses with the egg.
 - D: The fertilised egg starts to divide to form more cells.
 - (a) Arrange the above statements in the correct order in the boxes provided. [1]

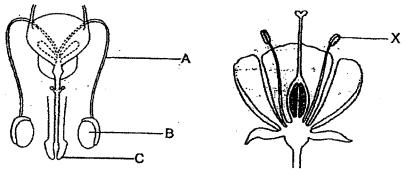


(b) The diagram shows the female reproductive parts. In the diagram, label and name the part where the fertilised egg develops. [1]



(c) Will the female be able to reproduce if parts S and T are removed? Explain your answer. [1]

6. The diagrams show the human and the plant reproductive parts.



Human reproductive part

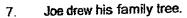
Plant reproductive part

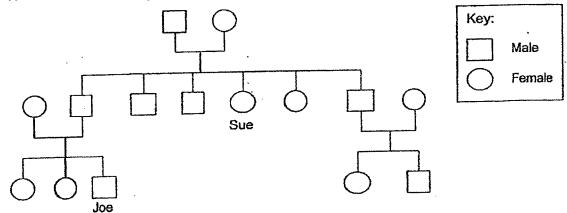
(a)	Which part, A, B or C, of the human reproductive part, has a similar function as part X of the plant reproductive part? State its function.	[1]
	Part:	
	Function:	
(b)	Give a reason why the human male releases a large number of sperms at a time from his body.	[1]

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SCORE

2

[1]

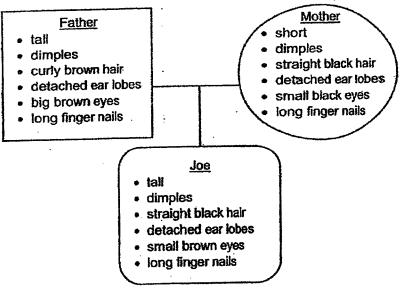




(a) Read the following statements. Decide whether they are true, false or not possible to tell by placing a tick (✓) in the boxes provided.

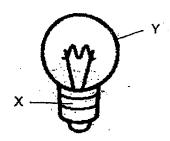
Statement	True	False	Not possible to tell
Joe has 3 uncles.			
Both Joe and Sue have attached ear lobes.			

(b) The diagram shows some characteristics of Joe and his parents.



Which characteristic(s) did Joe inherit that	Which characteristic(s) did Joe inherit that is/are common to both parents?	[1]
· .	(Go on to the next p	oage)
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8. The diagram shows a bulb.

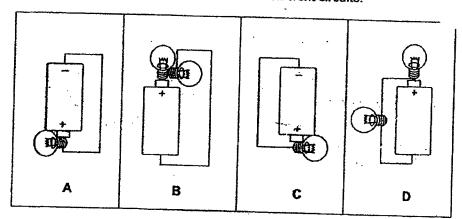


(a) What material are parts X and Y made of? State the property of each material that makes it suitable for its function.

[2]

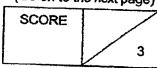
r			
		Material	Property
	. X		
	Y.		
1		<u> </u>	

(b) The diagrams show bulbs connected in four different circuits.

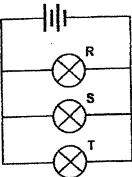


In which circuit(s) will the bulb(s) light up?

[1]



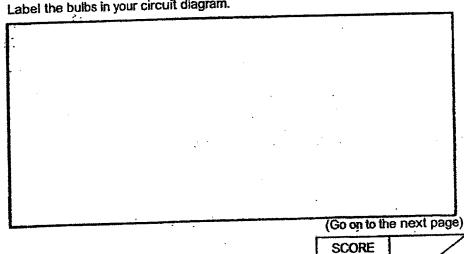
The diagram shows a circuit with three identical bulbs, R, S and T. The bulbs and 9. batteries are in working condition.



(a)	Is bulb T brighter than bulb R? Explain your answer.	[1]

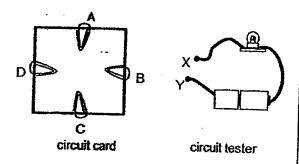
- (b) If bulb S blows, what would happen to bulbs R and T? Give a reason for your [1] answer.
- (c) The circuit was rearranged using the same electrical parts. Using two additional switches, draw a closed circuit diagram based on the following conditions:
 - Bulbs R and S are of the same brightness
 - Bulb T is brighter than bulbs R and S
 - Bulbs R and S are controlled by one of the switches
 - Bulb T is controlled by the other switch

Label the bulbs in your circuit diagram.



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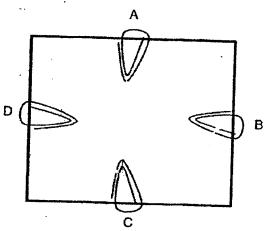
10. Alex wanted to find out how the wires in a circuit card are connected. He connected the points, X and Y, of a circuit tester to two metal paper clips on the circuit card, of a different combination each time. He recorded the results in the table as shown.



Paper Clips	Did the bulb light up?
A and B	No
A and C	Yes
A and D	Yes
B and C	No
C and D	Yes

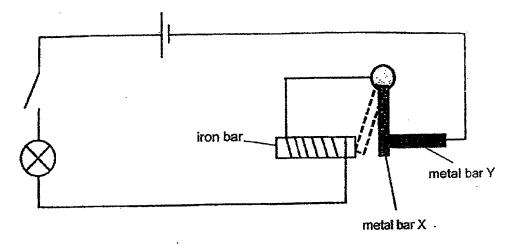
[1]

(a) Based on the results, draw two lines in the circuit card below to show how the wires are connected.



(b)	Alex used only one battery instead of two in the circuit tester. How will this affect the bulb when the bulb is lit?	
(c)	Alex replaced all the metal paper clips on the circuit card with plastic paper clips. Give a reason why the bulb did not light up when the circuit tester was connected to any two of the plastic paper clips.	[1]

il. Charles set up the circuit as shown.



When he closed the switch, the bulb lit up. After a short while, metal bar X moved away from the metal bar Y and touched the iron bar.

(a) Give a reason why the bulb lit up when the switch was closed.

[1]

(b) What would you observe about the bulb when metal bar X moves towards the iron bar? Give a reason for your answer.

[1]

(c) Without making any changes to the metal bars or iron bar, suggest how Charles can make the bulb brighter.

[1]

End of Paper

Bite-Sized Assessment 3

	The second second		
Q1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	transferred to the stigma of the flower. (b) Fertillisation. The male reproductive cell fuses with the female reproductive cell.		
	(c) D : Ovule		
	E: Ovary		
Q2	(a) It is a male flower.		
	(b) Plant C. It has nectar to attract pollinators.		
Q3	(a) Blant B was dispersed by water, hence, the seeds of plant B		
	could not go against the flow of the river and the parent Plant B		
	should be positioned at the upstream of the river.		
	(b) A: splitting		
	B:water		
,	C: animals		
	(c) The pods split open when dry.		
Q4	(a) B. The mass of the seed leaves decrease as the stored food is		
	used for the growth of the seedling.		
	(b) The seed would not germinate. Seed needs water to		
	germinate, since there was no water, the seed would not be able		
	to germinate.		
Q5	(a) B -> C -> D -> A		
	Womb		
	(b) 1/4		
	(c) No. No eggs will be released so fertilisation did not occur.		

	1.3				
Q6	(a) Part : B				
	Function: It produces the male reproductive cell.				
	(b) the human male releases a large number of sperms to				
	increase the chances of a sperm fusing with an egg.				
Q7					
Not possible to tell					
(b) Detached ear lobes and dimples.		and dimples.			
Q8	(a)				
Ĭ	X Metal Electric	cal conductor			
	Y Glass Transp	arent			
	(b) Circuits B and C.	s B and C.			
Q9	(a) No. The bulbs are o	onnected in parallel and will have the			
ري	same brightness.				
(b) They will still be lighted up. Electricity can still flow t		hted up. Electricity can still flow through			
the close circuit.					
	bulbe Bulbs				
	Dubi Base				
B. UIST					
	10				
Q10					
	(a)	(a)			
(b) The bulb will be dimmer.		ductor of electricity, hence when the metal			
paper clips were replaced, an open circuit was forn		aced an open circuit was formed and			
electric current was not able to pass through.		ot able to pass through.			
		was closed a closed circuit was formed			
Q11	causing electric current to flow through the circuit causing the				
		ist to non anough the survey of			
	bulb to light up. (b) The bulb will not light up. Electricity will not be able to flow				
through an open circuit. (c) Add another battery to the circuit.		ure to the circuit			
		ify to the circuit.			