2021 PSLE FOUNDATION SCIENCE (ANSWER KEY)

Section A

Question	Ans	Question	Ans
1.	(3)	14.	(2)
2.	(2)	15.	(3)
3.	(3)	16.	(3)
4.	(1)	17.	(3)
5.	(2)	18.	(3)
6.	(1)		
7.	(1)		
8.	(2)		
9.	(1)		
10.	(1)		
11.	(1)		
12.	(3)		
13.	(2)		

Section B

Qn	Acceptable Answers	Marks	Remarks
19	a) spores b) seeds	1m each	
20	a) carbon dioxide b) oxygen	1m each	
21	a) A: glass bulb B: metal tip C: (metal) filament b) Good	1m each	
22	Plant part — Function stem — To transport food and water root — To absorb water leaf — To make food	1m each	
23	a) stationary b) direction c) shape	1m each	
24	a) The number of Plant B will decrease./ Plant B will die b) The large number of Plant A reduces the amount of sunlight reaching Plant B [1/2], so Plant B will not make enough food [1/2] and may die.	1	

Qn	Acceptable Answers	Marks	Remarks
25	a) Mr Heng's heart rate is beating <u>faster/quicker/harder.</u>	1	
	b) The blocked arteries means his heart has to beat faster/quicker/harder so that the rest of the <u>body can receive the same amount of blood</u> containing oxygen and digested food/<u>because less blood travels in the blood vessels</u>	1	
26	a) increase the number of coils	1	
	b) increase the number of batteries	1	
27	a) gains	1	
	b) Bubbles	1	
28	a) D, C, B, A	1	No partial
	b) Slower. Plastic is <u>a poor conductor of heat</u> [1m] so it allows <u>heat to travel through less easily</u> [1m] so it takes more time.	2	
	c) Use a stronger/bigger flame. Bring the flame closer to the rod.	1	
29	a)	1m each	

	Constant variable	Measured variable	Changed variable
e.g. Mass of car (g)	✓		
i) Surface of ramp			✓
ii) Angle of ramp (°)	✓		
iii)Time recorded (s)		✓	

Qn	Acceptable Answers	Marks	Remarks
	b) The <u>speed of the car will increase</u>. [1m] The lubricant reduces the amount of friction between wheels of the car and the surface. [1m]	2	
30	a) When both switches are closed, a <u>closed circuit is form</u> so electricity can flow through. b) 	switch 2 was replaced with:	bulb lights up
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iron nail	(Yes) No
steel coin	(Yes) No
wooden fork	Yes / (No)
aluminum foil	(Yes) / No		1 ½ m each	

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