Mendaki PSLE Science 2019 Answer Key

<u>Multiple-Choice Questions (28 questions x 2 marks = 56 marks)</u>

Qn no.	Ans	Qn no.	Ans	Qn no	Ans	Qn no	Ans	Qn no	Ans
1)	4	7)	3	13)	2	19)	2	25)	4
2)	3	8)	4	14)	1	20)	1	26)	1
3)	3	9)	4	15)	4	21)	4	27)	2
4)	2	10)	2	16)	2	22)	2	28)	2
5)	2	11)	1	17)	2	23)	3		
6)	3	12)	1	18)	4	24)	2		

SCIENCE BOOKLET B (44 marks)

Question	Acc	eptable Answers	Marks	Remarks
29	(a)	It is made of a clear and strong plastic. (1m). It must be transparent (1/2m) so that the light produced in the wheel can pass through for Salleh to see. (1/2m)	2m	
	(b)	There is lesser kinetic energy(1/2m) when the skate moved at a slower speed which would be converted to lesser electrical energy.(1/2m)	1m	
30	(a)	Banana plant reproduce from suckers / shoots growing from the base of parent plant / to get nutrients from the parent plant.	1m	
	(b)	Fruit	1m	
	(c)	Pineapple / Bamboo / Sugar cane	1m	
31	(a)	Both have 3-stage life cycles.	1m	
	(b)	The young of a cockroach looks like its adult but not the young of the frog.	1m	
32	(a)	The water vapour in the surrounding air (1/2m) came in contact with the cooler outer surface(1/2m) of the window. It lost heat (1/2) and condensed into water droplets on the outer surface of the glass. (1/2m)	2m	
	(b)	The outside temperature is cooler than the inside temperature of the car (1/2m). The warmer water vapour will then condense on the cooler inner surface of the window(1/2m), forming water droplets.	1m	

33	(a) As the length of the wing-like structure increases, the distance travelled by the shorea fruit also increases.			
	(b) Strength of wind/ Mass of the fruit		1m	
34	(a) Move the light so	ource closer to the beaker.	1m	
	25°C, the rate of the temperature the rate of photo because it has because	ature of water increases from 15°C to of photosynthesis increases. However, as e of water increases from 25°C to 35°C, osynthesis decreases (1m). This is become too warm for the plant to e effectively. (1m)	2m	
35	B or C fuses, bu	ses, Bulbs C and D lights up./ When bulb ulb A lights up.	1m	
	(b) Batter L	Lamp A Lamp B	2m	Award 0 if any of the bulb is missing/ switch is missing.
36		l overcame the frictional force(1/2m) and force(1/2m) acting between the box and	1m	(b) Accept other reasonable answers (Key concept: Reducing frictional force
	(b) Coat the slope wi	ith lubricant/oil / Add wheels to the bottom	1m	acting between the box and the slope)

37	(a)	If A and B are attracted to each other, it merely shows that one is a magnet while the other is made of magnetic material. It doesn't prove that they are both magnets.	1m	
	(b)	The end X will repel and P (1m). Only a magnet can repel another magnet. (1m)	2m	
	(i)	Dropping/Hitting/Hammering	1m	
	(ii)	Stroking it with a stronger magnet.	1m	
38	(a)	Chicken / Mynah / Snake	2m	(a) Accept any two animals
	(b)	The population of eagles decreased.	1m	
39		tion of ar flow	2m	Must include all the three locations to get 2 marks
	(b)	Volume/Amount of river water sample taken / Amount of Substance P added into each beaker	2m	
	(c)	Less sunlight will travel through the polluted water (1/2m) and will affect the submerged plants' ability to make enough food to survive (1/2m).	1m	

40	(a)			
	Structural Adaptation	Benefit for the plant	4m	
	waxy leaves	reduce/prevent water loss		
	pink leaves around white flowers	Attract pollinators for pollination		
	juicy and think leaves	Store water and food		
	needle-like leaves	Reduce water loss		
	(b) To prevent pred	dators from climbing the plant.	1m	
41	(a) From the fo	ood he eats	1m	
		ntial energy→kinetic energy→heat energy + gy (1/2m for each)	2m	
	rubber band (1/2m) whic	rubber band further (1m). This will cause the d to possess greater elastic potential energy the then be converted to greater kinetic energy c ball (1/2m), and the plastic ball will travel	2m	