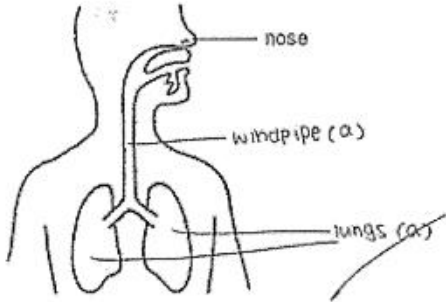


SCHOOL : METHODIST GIRLS SCHOOL
 LEVEL : PRIMARY 6
 SUBJECT : SCIENCE
 TERM : 2021 PRELIM

SECTION A

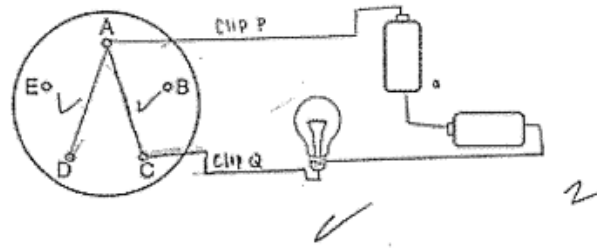
Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	2	4	3	2	2	3	1	2	3
Q 11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
2	4	1	4	2	2	3	4	1	1
Q 21	Q22	Q23	Q24	Q25	Q26	Q27	Q28		
2	3	2	4	4	4	3	3		

SECTION B

Q29)	 <p>a)</p> <p>b) The human system allows gaseous exchange between our body and the surrounding to occur. It takes in oxygen and expels carbon dioxide from our body.</p>
Q30)	<p>a) During photosynthesis, the plant takes in water and carbon dioxide from the surroundings. The chlorophyll in the leaves traps light to make food for the plant through photosynthesis, producing oxygen and sugar.</p>

Q30	b) Amount of sunlight W and X, Amount of carbon dioxide X and Y
Q31	<p>a) From 5 degrees Celsius to 35 degree Celsius, as the temperature increases the amount of bacteria Z increases.</p> <p>b) The food will be safe from being eaten.</p> <p>c) When the food cooked to 95 degree Celsius, still got bacteria left unkilld, when the food is left at room temperature, bacteria will grow rapidly, causing it unsafe to eat.</p>
Q32	<p>a) 1. One of the insect has a four-stage life cycle while the other has a three-staged lifestyle. 2. The young of one of the insect does not resemble the adult while the young of the other insect resembles it's adult.</p> <p>b) As the temperature increases, the number of days for one complete the cycle decreases. Thus the young would grow into the adults Aedes mosquitos at a faster rate, causing more humans to be bitten. Thus, the number of dengue cases among humans increases as the temperature increases.</p>
Q33	<p>a) Set-up X. Plants need water to survive. The plant in set-up X has roots, thus it would absorb water for the leaf to trap light to make food through photosynthesis. Hence, the water in the beaker would decrease and not remain constant.</p> <p>b) Yes. There was only one changed variable, the number of leaf's each plant has.</p>
Q34	<p>a) Strength, the helmet is strong and does not break easily.</p> <p>b) Liquid</p> <p>c) When Lewis breathed out heavily. He breathed out warmer water vapour. The warmer water vapour then came into contact with and lose heat to the cooler inner surface of the transparent shield. The warmer vapour condensed into water droplets, forming the misty patch.</p>
Q35	<p>a) It would increase. The stores occupy space. When the stores are dropped into the water they would sink and occupy the space that the water was once occupying, causing the water level to rise.</p>

	<p>b) When the plastic bottle with stones were added in the tank, the water level rose to level L, replacing the space that was meant to be occupied by the remaining 1 litre of water. Thus, lesser water was needed to fill the water tank, conserving water.</p>
Q36)	<p>a) Gravitational force and Magnetic force.</p> <p>b) There was magnetic force of attraction acting between object Z and the magnetic metal clip. The magnetic force of attraction opposed the gravitational force acting on the metal clip.</p> <p>c) It would still remain in the air, like figure 1.</p> <p>d) Metal clip get attracted by the magnetic on top, thus it did not drop.</p>
Q37)	<p>a) Temperature is a physical quantity that expresses how hot and cold of the object.</p> <p>b) Container A. The water in container A was lesser than in B, thus the water in A has lesser heat energy. Hence, the water in A does not need to lose as much heat as the water into the cold air in the freezer, causing it to freeze first.</p> <p>c) Flexibility, container z is flexible and can bend easily without breaking.</p>
Q38)	<p>a) heat energy, electrical energy, kinetic energy, gravitational potential energy</p> <p>b) When the toy car move up the slop, it have to over come more gravitational force compare to it move on flat surface, thus more energy will be needed, thus it will move slower.</p> <p>c) Add lubricant to the flat surface.</p>
Q39)	<p>a) If the bulbs is arranged in parallel, the brightness of the bulbs increases,</p> <p>b) The arrangement of the bulbs in the circuit.</p>



c)

d) Yes. Both Pin C and D are connected to Pin A. A closed circuit would be formed and electric current could flow through the circuit and the bulb, causing the bulb to light up.

Q40)

a) Force is a push or pull.

b) As angle x decreases, the pulling force decreases.

c) Angle between the long ramp and the ground is smaller than the short ramp and the ground. Thus, lesser pushing force is required for Mr Ravi to push his wife up the ramp.

d) The grooves increase the amount of frictional force, which opposes motion, between the wheels of the wheelchair and the ground, reducing the chances of the wheelchair sliding backwards, ensuring the safety of wheelchair users.