

ANSWER KEY

SCHOOL : CATHOLIC HIGH PRIMARY SCHOOL

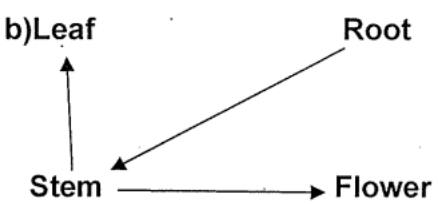
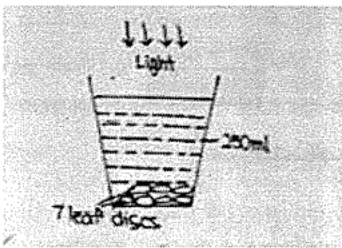
LEVEL : PRIMARY 6

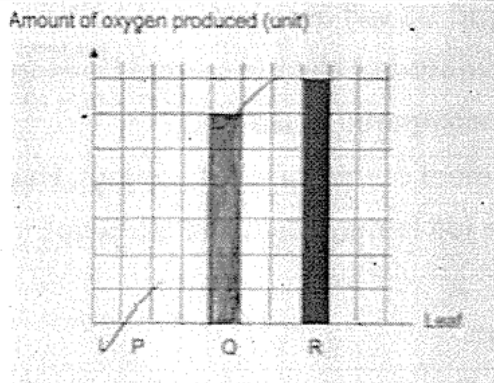
SUBJECT : SCIENCE

TERM : 2021 PRELIM

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	1	2	1	4	2	4	3	4	3
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
1	2	3	3	2	2	4	3	1	2
Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28		
4	1	3	3	1	1	3	4		

Q29	<p>a) As the number of sit-ups performed increases, the average heart rate per minute increase.</p> <p>b) To allow the heart rate to return to the original amount so this will increase the accuracy of results obtained.</p> <p>c) His breathing rate increased as the pupil needed more oxygen to be transported to the rest of his body while releasing more carbon dioxide away from his body.</p> <p>d) The pupil ate a banana which is digested function of digested system transportation into simpler substance in the digestive system which would be transported to the body for more energy.</p>
Q30	<p>a) i) Part Y could still receive water through the water – carrying tubes for photosynthesis.</p> <p>ii) Food produced by Part Y cannot be transported to the roots as there are no food-carrying tubes, causing food to be stuck at part Z.</p>

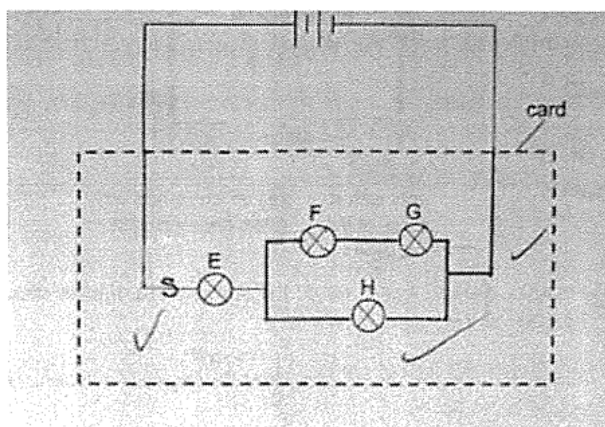
	<p>b) Leaf</p> <p>Root</p> <p>Stem</p> <p>Flower</p> 
Q31)	<p>a) It increases the chance for the flower to be pollinated and fertilisation for it to produce fruit.</p> <p>b) The seeds would be carried further away from the parent plant and reduces overcrowding and competition over sunlight, water, nutrients and space.</p> <p>c) Fertilisation means the nuclei of a male reproductive cell fuses with the nuclei of a female reproductive cell.</p>
Q32)	<p>a) pod --- ovary bean --- ovule</p> <p>b) Water, Oxygen and suitable temperature.</p> <p>c) The fruit of X has a fibrous husk which traps air so the fruit of X can stay afloat on the water for a longer period of time to be dispersed further away from the parent plant.</p>
Q33)	<p>a) The amount of coloured lights shone.</p> <p>b) Red light increases the rate of photosynthesis in plants faster than Blue light.</p> <div data-bbox="391 1310 734 1556" data-label="Image">  </div> <p>c) A cup with 250ml of water with 7 leaf discs in the presence of no coloured light.</p>



Q34) a) To ensure that the sound level outside the box is due to the material added.
 b) The same amount of sound will be blocked out.
 c) S. Material S allows the least amount of sound to be detected outside the box so this will reduce the most amount of sound to be heard outside the house.

Q35) a) The warm water vapour from the surroundings lost heat to ice cubes and condensed into tiny water droplets, forming the white mist.
 b) Substance T increases the rate of ice melting so the ice melts faster compared to ice without substance.
 c) Sofia should use a beaker that has lesser substance T and another identical with more substance T but the same amount of ice. If the container of ice with substance T melts faster, she can make that conclusion.

Q36) a) b)



	<p>c)The brightness of B1,B2 and B3 will decrease. The bulbs are in series arrangement so the amount of electric current flowing through each bulb is lesser compared to before.</p>
Q37)	<p>a)Set-up X. There was a greatest surface area of contact. Heat would be lost from the water to the ice faster, hence the temperature of water would drop faster.</p> <p>b)Add cold water into the tub.</p>
Q38)	<p>a)Elastic potential energy in the spring is converted to kinetic energy of the ball when released which converts to gravitational potential energy when it moved higher and converts back into kinetic energy when the ball roll down eventually hit the bell.</p> <p>b)use a stiffer spring. A stiffer spring would have more elastic potential energy which is converted to more kinetic energy of the ball, causing it to hit the bell at position R.</p>
Q39)	<p>a)D. The ball took the longest time to travel the least distance. The frictional force between the ball and the surface was greatest .</p> <p>b)i)The mass of the ball.</p> <p>ii)The diameter of the ball.</p> <p>c)The snow chairs increases the amount of frictional force between the snow chairs on the car wheel and the icy road.</p>
Q40)	<p>a)It is magnetic.</p> <p>b)When there is too much electric current, the wire coiled around a fixed metal cylinder will be a stronger electromagnet temporary magnet. It will attract the movable iron arm and separate the metal contacts.</p> <p>c)The magnetic force of attraction between the metal cylinder and iron arm is greater than the elastic spring force exerted on the iron rod.</p>