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	INDIAN SCHOOL MUSCAT MIDDLE SECTION HALF YEARLY EXAMINATION 2019 – 20	
	<u>SUBJECT – SCIENCE</u>	Code: MXSCO6
CLASS 6	<u>ANSWER KEY</u>	Time Allotted: 2 ½ hrs
15.09.2019		Max .Marks: 80
<p>General Instructions.</p> <p>1. The question paper comprises of three sections A, B & C. You have to attempt all the sections.</p> <p>2. All the questions are compulsory.</p> <p>3. All the answers should be written in the answer sheet provided.</p>		

<u>SECTION 'A' – ('1' MARK EACH) – TOTAL – 20 MARKS</u>		Marks
Q.1.	MULTIPLE CHOICE QUESTIONS: -	
(a)	Out of the following which is an example of translucent object? i) A thin gold sheet ii) butter paper iii) mirror iv) wood	1
(b)	When water is mixed with plaster of Paris and dries it becomes i) Soft ii) Very soft iii) hard iv) soluble	1
(c)	Magnets can be i) Cylindrical ii) horse shoe iii) U- shaped iv) all of these.	1
(d)	Which is an example of a magnetic substance? i) Iron ii) Nickel iii) Cobalt iv) all of these	1
(e)	This type of plant has a thick, hard and woody stem? i) Tree ii) Shrub iii) Herb iv) all of these.	1
(f)	The object can never form a circular shadow? i) A ball ii) A flat disc iii) A rectangular shoe box iv) An ice cream cone.	1
(g)	Air and water are --- i) Transparent and non-luminous iii) opaque and non-luminous ii) Translucent and non-luminous iv) Transparent and luminous	1
(h)	Which of the following is not a part of water cycle? i) Cloud formation ii) Rain iii) Drinking iv) Sun	1
(i)	Mountaineers carry oxygen cylinders with them because: - i) There is no oxygen at high altitudes. ii) There is a deficiency of oxygen on high altitudes iii) Oxygen used for cooking. iv) Oxygen keeps them warm at low temperatures.	1

(j)	The major component of air is i) Nitrogen ii) Oxygen iii) Carbon dioxide iv) water vapour	1
Q.2.	VERY SHORT ANSWER QUESTIONS: -	
(a)	Which property of oxygen is helpful for aquatic plants and animals? Its solubility in water -1m	1
(b)	Some metals lose their shine when exposed to air for long time. Why? This is because of the action of air and moisture on them -1m	1
(c)	When we dissolve salt in water we get salt solution. How can we reverse this change? by distillation/evaporation – 1m	1
(d)	Mention two ways in which magnets lose their magnetism. By dropping very often, by heating, by hammering, improper storage - any two -1 m	1
(e)	If a bar magnet is cut lengthwise into two parts, how many poles will form for each piece? Two poles – 1m	1
(f)	Write the characteristics of the image formed by a pinhole camera? Real, inverted, coloured, small - any two -1 m	1
(g)	What are luminous objects? Object that emit their own light – 1m	1
(h)	Why do earth worms come out of the soil during rainy season? For respiration because the water fills up all the spaces occupied by the air in the soil – 1m	1
(i)	What happens when air comes in contact with a cold surface? It condenses to form drops of water on the cold surfaces -1m	1
(j)	What are the two important products we get out of photosynthesis? Food /starch/ glucose/ carbohydrate and oxygen – 1m	1

Q.NO	<u>SECTION 'B' – ('3' MARKS EACH) – TOTAL – 30 MARKS</u>	Marks
(3)	a) State any two advantages of classifying materials into different group? For convenience, easy to locate and to study their properties - 1m b) Tom has a tray of eggs, a few of these eggs are rotten how can Tom separate the rotten eggs from good ones? Rotten eggs float in water, good ones sink in water – 1m	3

	<p>e) Give one difference between hard and soft materials.</p> <p>Soft materials - can be compressed / scratched easily - 1/2m Hard materials - difficult to compress / cannot be scratched easily - 1/2m</p>	
(4)	<p>a) What are soluble substances? Give two examples.</p> <p>Substances which completely disappear or dissolve in water - 1m Salt, Sugar, tang powder, glucose etc - any two correct examples - 1m</p> <p>b) Give two examples of immiscible liquids.</p> <p>Water and kerosene, petrol, diesel, oil etc - Any two correct examples - 1m</p>	3
(5)	<p>How is a metal rim fixed on a wooden wheel of a cart? (3 points)</p> <p>Metal rim slightly smaller than the wooden wheel -1/2 m On heating rim expands and fits onto the wheel -1m Cold water is then poured over rim - ½ m The rim contract and fits tightly onto the wheel -1m</p>	3
(6)	<p>a) State any two properties of a magnet?</p> <p>Like poles repel unlike poles attract / A freely suspended magnet always points N-S direction / A magnet attract magnetic materials / Magnetic poles exist in pairs - Any two correct properties of metals - 2m</p> <p>b) Draw a neat diagram of magnetic compass.</p> <p>Correct diagram -1m</p>	3
(7)	<p>a) What is transpiration?</p> <p>It is the process in which water comes out of leaves in the form of vapour through stomata -1m</p> <p>b) State any two functions of stem.</p> <p>Conduct water, minerals and food, store food, give support to the plants Any two -2m</p> <p>[OR]</p> <p>a) State any two functions of root.</p> <p>Absorb water and minerals from the soil, It helps to hold the plant firmly in the soil, store food - any two -2m</p> <p>b) Give one difference between creepers and climbers.</p> <p>Creepers - cannot stand upright and spread on the ground Climbers - take support of neighbouring structures and climb -1m</p>	3

<p>(8)</p>	<p>a) Give two differences between a shadow of a flower and its reflected image.</p> <table border="1" data-bbox="272 134 1372 470"> <thead> <tr> <th data-bbox="272 134 815 191">Shadow</th> <th data-bbox="815 134 1372 191">Image</th> </tr> </thead> <tbody> <tr> <td data-bbox="272 191 815 300">It gives only a rough idea of the shape of a flower</td> <td data-bbox="815 191 1372 300">It gives exact shape</td> </tr> <tr> <td data-bbox="272 300 815 357">It has no colour /black in colour</td> <td data-bbox="815 300 1372 357">It gives colour of the flower</td> </tr> <tr> <td data-bbox="272 357 815 470">It is formed due to blockage by an opaque object</td> <td data-bbox="815 357 1372 470">It is formed due to reflection of light</td> </tr> </tbody> </table> <p style="text-align: right;">Any two – 2m</p> <p>b) In a completely dark room, if you hold up a mirror in front of you, you will not be able to see your reflection. Give one reason.</p> <p>since there is no light, no image will be formed – 1m</p>	Shadow	Image	It gives only a rough idea of the shape of a flower	It gives exact shape	It has no colour /black in colour	It gives colour of the flower	It is formed due to blockage by an opaque object	It is formed due to reflection of light	<p>3</p>
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<p>(9)</p>	<p>a) Is Butter paper an example of a translucent object? Yes – 1/2m</p> <p>b) Write the three conditions necessary for the formation of a shadow.</p> <p>Opaque object, source of light and screen – each 1/2m</p> <p>c) State the principle on which the pinhole camera works?</p> <p>Light travels in a straight line - 1m</p>	<p>3</p>								
<p>(10)</p>	<p>a) What is water cycle?</p> <p>The circulation of water between ocean and land is known as water cycle</p> <p>Or any other equivalent definition - 1m</p> <p>b) Suggest two ways of conserving water at home.</p> <p>Do not leave a tap running while brushing your teeth, avoid taking shower use a bucket and mug for taking bath, repair all leaking pipes and taps, use wet cloth to clean the car instead of using a hose</p> <p style="text-align: right;">- Any two points - 2m</p>	<p>3</p>								
<p>(11)</p>	<p>a) Give one difference between drought and floods.</p> <p>No rain in a region for a year or more leads to drought</p> <p>Excess rainfall leads to flood – 1m</p> <p>b) Write any two consequences of flood.</p> <p>Extensive damage to crops, domestic animals, property and human life</p> <p style="text-align: right;">– any two - 2m</p>	<p>3</p>								
<p>(12)</p>	<p>Name the component of air</p> <p>a) that is required by plants to make proteins - Nitrogen</p> <p>b) which is used in aerated drinks. - Carbon dioxide</p> <p>c) which is used by the plants for respiration. - Oxygen - each 1m</p>	<p>3</p>								

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Q.NO	<u>SECTION 'C' – ('5' MARKS EACH) – TOTAL – 30 MARKS</u>	Marks
(13)	<p>a) Classify the following change that can be reversed / cannot be reversed</p> <p>i) Growth of a plant - cannot be reversed</p> <p>ii) Melting of a wax - can be reversed</p> <p>iii) Breaking of a glass rod. – cannot be reversed</p> <p>iv) Preparing curd from milk. – cannot be reversed</p> <p style="text-align: right;">- each ½ m</p> <p>b) A small gap is left between the joints of a railway track. Give reasons To allow the expansion of rails during summer – 1m Otherwise the rails would bend causing derailment - 1m</p> <p>c) Rajesh says that deforestation is a change that can be reversed. Is he right in saying so? Give reason to justify your answer. No – 1/2m the same cut tree cannot be re grow or equivalent reason – 1/2m</p>	5
(14)	<p>How will you store bar magnets? Explain with a neat labeled diagram.</p> <p>Bar magnets should be kept in pairs with their unlike poles on the same side -1m They must be separated by a piece of wood – 1m Two pieces of soft iron should be placed across their ends -1m Diagram -1m any two labeling – 1m</p> <p style="text-align: center;">(OR)</p> <p>a) What is a magnetic compass? It is a device used to find direction – 1m</p> <p>b) How will you find the East direction using a magnetic compass? By using magnetic compass we find N-S direction – 1m When you stand facing North, your right hand points East direction -1m</p> <p>c) Draw a neat diagram showing the storing of a horse shoe magnet. Neat diagram -1m</p> <p>d) State any two uses of magnets. Used in fridge stickers, toys, pencil cases, speakers, ATM/debit cards,</p>	5

doors, electric motors, magnetic cranes - Any two correct uses – 1m

- (15) a) Draw a neat diagram of leaf and label the following parts.
i) Lamina ii) Petiole iii) veins iv) midrib

Neat diagram – 1m Four labelling – 2m

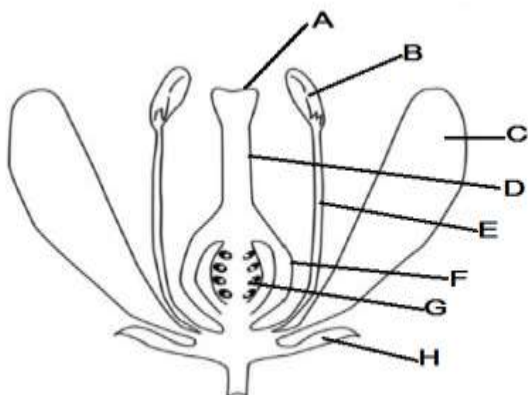
- b) State any two differences between taproot system and fibrous root system.

Tap root	Fibrous root
Have main root and the smaller roots	No main root and all the roots are seem similar
Leaves have reticulate venation	The leaves have parallel venation

5

2marks

- (16) Observe the following diagram and answer the following questions.



- a) Label the parts marked **A, B, D, E, F** and **G**

A – Stigma

E - Filament

B – Anther

F - Ovary

D – Style

G - Ovules

- each 1/2m

- b) Write one function of the part labelled as i) **C** ii) **H**

i) **C - Petals – attract the insects - 1m**

ii) **H - sepals - protect during budding stage/prepare food - 1m**

5

(17)	<p>a) What is rain water harvesting? The process of collecting and storing rain water for the future use – 1m</p> <p>b) State the two methods of rain water harvesting. Rooftop rainwater harvesting – ½ m Allow the water to go to the ground directly from the roadside drains that collect rainwater - 1/2m</p> <p>c) Apart from Transpiration, Write any two processes involved in the formation of clouds and define them. Evaporation, condensation - each ½ m The process of conversion of liquid into gas – 1m The process of conversion of gas into liquid - 1m</p>	5
(18)	<p>a) How do plants and animals help in maintaining balance of oxygen and carbon dioxide? Explain. During respiration plants and animals take in oxygen and give out carbon dioxide --1m This carbon dioxide is used by the plants for Photosynthesis and release Oxygen -1m</p> <p>b) List four activities that are possible due to the presence of air. Movement of sailing yachts, gliders, parachutes, aero planes, dispersal of seeds, rotation of wind mill to draw water from wells, wind mills used to generate electricity, winnowing, pollination etc Any four – 2m</p> <p>c) Why does a lump of cotton wool shrink in water? When a lump of cotton wool is dipped in water, the air goes out and water occupies its space. – 1m</p>	5

End of the question paper.