



OSDAV Public School, Kaithal  
Half Yearly Exams( 2024-25)  
Class: VI  
Subject: SCIENCE

SET-A  
M.M.:60

Time:2:30 hrs.


**General Instructions:-**

I.All questions are compulsory.

II.Draw neat and clean labelled diagrams .

Q. No.	Questions	Marks
1.	<p><b>Choose the correct option :</b></p> <p>(i) Smell of perfume reaches to us by the process of - (a)Photosynthesis (b) diffusion (c) solubility (d) respiration</p> <p>(ii) Which of the following four motion Is different from other three- (a)Growth of a child. (b) Evaporation of water (c) Stretching rubber band. (d) Formation of ice from water</p> <p>(iii) Biennial plants live for- (a)One year. (b) Two years. (c ) One season. (d) Many years</p> <p>(iv) Vermicomposting is done by- (a) fungus (b) worms. (c) Bacteria (d) Aquatic animals</p> <p>(v) The child who has bow legs suffering from a deficiency disease known as : (a) Anaemia (b) Rickets. (c) Scurvy (d) Night blindness</p> <p>(vi) The process of loading helps - (a)to slow down the rate of sedimentation. (b)speed up the rate of decantation (c)speed up the rate of sedimentation (d)slow down the rate of decantation</p> <p>(vii) A piece of paper undergoes a chemical change when it is (a) cut. (b) burned. (c)reshaped (d) folded</p> <p>(viii) Growth of a child is a ..... change (a)Slow. (b ) Physical. (c) Reversible. (d) Fast</p> <p>(ix) The richest source of vitamin C is – (a)Apple. (b) Amla. (c) Banana. (d) Sugarcane</p> <p>(x) Out of following find the water soluble vitamin : (a)Vitamin A (b) Vitamin B (c) Vitamin D (d) Vitamin E.</p>	1x 10=10
2.	<p><b>Assertion/ Reasoning :</b> Find the correct option: Assertion: Evaporation is a method used to separate salt from water. Reason: Water evaporates on heating, leaving the salt</p>	1

	<p>a) Assertion is true, reason is false.</p> <p>b) Assertion is false but the reason is true.</p> <p>c) Both assertion and reason is true</p> <p>d) Both assertion and reason is false</p>	
<b>3</b>	<p><b>Assertion-Sand can be separated from water by filtration.</b></p> <p>Reason-Sand is insoluble in water.</p> <p>a) Assertion is true, reason is false.</p> <p>b) Assertion is false but the reason is true.</p> <p>c) Both assertion and reason is true</p> <p>d) Both assertion and reason is false</p>	<b>1</b>
<b>4.</b>	<p><b>Read the following paragraph and answer the following questions:</b></p> <p>(A) Sita noticed that the iron gate in her garden had developed a reddish-brown layer over time. She remembered that this happened because of exposure to air and moisture. She wondered if this change could be reversed.</p> <p>Q 1: What is the reddish-brown layer that developed on the iron gate called?</p> <p>Q 2: Is rusting of iron a physical or chemical change?</p> <p>Q 3 Justify: Rust formation on iron is a slow change.</p> <p>Q4 Suggest one way to prevent the rusting of iron.</p>	<b>4</b>
	<p>(B) Rohan was curious about how the Earth moves. His teacher explained that the Earth revolves around the Sun and rotates on its axis.</p> <p>Q 1 What type of motion is the Earth showing as it rotates on its axis?</p> <p>Q2 Is the Earth's motion around the Sun periodic or non-periodic?</p> <p>Q3 How much time does the earth take to rotate on its axis?</p> <p>Q4 Name the motion of Earth</p>	<b>4</b>
<b>5</b>	Justify the statement- Decomposition of dead animals turns out to be useful.	<b>2</b>
<b>6</b>	How does measurement help us in our day to day life.	<b>2</b>
<b>7</b>	Give reason-Formation of curd is an irreversible and chemical change.	<b>2</b>
<b>8</b>	<p>Name the method of separation for the following mixture</p> <p>a) Ammonium chloride and sand</p> <p>b) pebbles from rice</p>	<b>2</b>
<b>9</b>	Which state of matter can easily changes shape and volume and why	<b>2</b>
<b>10</b>	<p>a) What are carbohydrates made up of ?</p> <p>b) Write a short note on balanced diet.</p>	<b>2</b>
<b>11</b>	<p>a) Mineral X is essential for the function of thyroid gland the function of y is produced of thyroxine in the body the deficiency of mineral X in the diet of a person causes a disease Z .Identify X,Y and Z</p> <p>Write any one symptom of diseases Z</p> <p>b) Write any one source of X.</p>	<b>3</b>
<b>12</b>	Differentiate between Autotroph and Heterotroph by giving one examples of each type.(Three points)	<b>3</b>
<b>13</b>	Write any one source of fats ? Write any one test for detecting fats in the given food item.	<b>3</b>
<b>14</b>	Draw a well labelled diagram of arrangement of particles in three states of matter.	<b>3</b>

<p><b>15</b></p>	<p>(a) Name the method of separation used in the following figure</p>  <p>(b) Write any one example of a mixture that is separated by above figure method.  (c) Write any one example of pure substance from your surroundings.</p>	<p><b>3</b></p>
<p><b>16</b></p>	<p>Write any three uses of animals in our daily life.</p>	<p><b>3</b></p>
<p><b>17.</b></p>	<p>(a). State the difference between biodegradable and non biodegradable materials.  (b) Draw a well labelled diagram of mineral cycle in nature.</p>	<p><b>2+3</b></p>
<p><b>18.</b></p>	<p>(a) A student measures the length of a pencil. The initial reading on the ruler at the starting point of the pencil is 2 cm, and the final reading at the end of the pencil is 14.5 cm. What is the length of pencil  (b) Name the motion observed by a pencil while writing.  (c) Write any three precautions used while measuring the length by using a scale.</p>	<p><b>1+1+3</b></p>



Time:2:30 hrs.

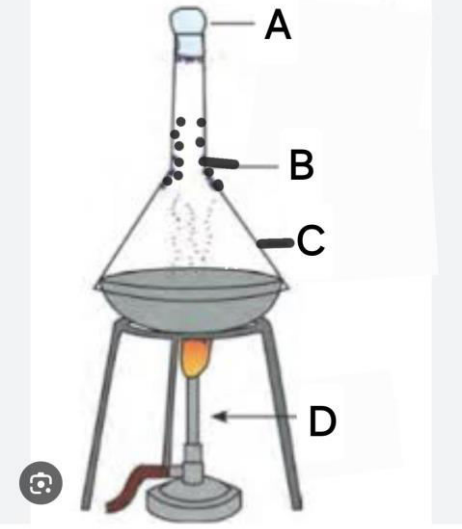
**General Instructions:-**

I. All questions are compulsory.

II. Draw neat and clean labelled diagrams .

Q. No.	Questions	Marks 1x10=10
1.	<p>I. The group of organisms which use light for making food are called (a) autotroph                      (b)decomposers                      (c) scavenger                      (d) heterotroph</p> <p>II. When a drop of iodine solution was put on the cut surface of a potato, it turns blue-black in colour. This indicate the presence of (a) vitamin                      (b) fat                      (c ) protein                      (d) starch</p> <p>III. Air is a matter because : (a)It occupy space has mass                      (b) occupy space (c)doesn't sink in water                      (d) has mass</p> <p>IV. Which method is used to separate the fine particles suspended in liquid by rotating the mixture at high speed? (a)Sedimentation.                      (b) Filtration (c) Centrifugation.                      (d) Decantation</p> <p>V.Evaporation of water is a..... change (a)Physical                      (b ) fast                      (c) irreversible                      (d) chemical</p> <p>VI. SI unit of length is – (a)metre                      (b) kilometre                      (c) millimetre                      (d)centimetre</p> <p>VII. The motion of the earth around the Sun is.....motion. (a) Revolution.                      (b ) rotation.                      (c) non periodic.                      (d) oscillatory</p> <p>VIII. All living organisms have - (a)cells.                      (b) bones.                      (c) feathers.                      (d) stems</p> <p>IX. Perennial plants can live for (a)one year.                      (b) one season                      (c) two years.                      (d) many years</p> <p>X. The deficiency of iron causes a disease called - (a) Anaemia.                      (b) goitre.                      (c) Night blindness.                      (d) Scurvy</p>	
2.	<p><b>Assertion/ Reasoning :</b> Find the correct option: Assertion: Filtration can be used to separate sand from water. Reason: Sand is soluble in water and can be separated by filtration</p>	1

	<p>a) Assertion is true, reason is false.</p> <p>b) Assertion is false but the reason is true.</p> <p>c) Both assertion and reason is true</p> <p>d) Both assertion and reason is false</p>	
3	<p><b>Assertion :Night blindness is caused due to the deficiency of Vitamin A.</b></p> <p>Reason: Vitamin A is essential for maintaining healthy vision.</p> <p>a) Assertion is true, reason is false.</p> <p>b) Assertion is false but the reason is true.</p> <p>c) Both assertion and reason is true</p> <p>d) Both assertion and reason is false</p>	1
4	<p><b>Read the following paragraph and answer the following questions:</b></p> <p>(A) The motion of cyclist going on a straight road , blades of moving fan , child on a swing. They all are regarded as being in motion but we can feel that there is some difference in their motion. The cyclist moving on straight road , blades of fan are going round and round about its central rod and child is swinging to and fro in regular manner.</p> <p>i) When do we consider an object to be in motion ?</p> <p>ii) What is the type of motion of tip of the pen while writing?</p> <p>iii) If you are sitting in a bus , are you at rest or in motion with respect to surroundings?</p> <p>iv) Define circular motion.</p>	4
	<p>(B) Sanjay left an iron nail outside in his garden. After a few weeks, he noticed that the nail had turned brown and was covered with rust.</p> <p>1) What is the reddish-brown layer that developed on the iron nail called?</p> <p>2) Is rusting of iron a physical or chemical change?</p> <p>3) Justify: Rust formation on iron nail is a slow change.</p> <p>4) Suggest any one way to prevent the rusting on iron.</p>	4
5	How do autotroph different from heterotroph?	2
6	Justify the statement -A foot step or a handspan is not used as a standard unit of length.	2
7	Explain- Formation of cheese from milk is an irreversible and chemical change.	2
8	After a dust storm , how does rain help in making air clear?	2
9	Which state of matter can't easily change its shape and volume ? Why?	2
10	Why is deficiency of iodine more common in mountainous regions?	2
11	<p>a) Vitamin X is essential for the formation of Y in blood of a person. The function of Y is to transport oxygen in the blood. The deficiency of X in the diet causes a disease Z. Identify X, Y and Z. Write any one symptom of disease Z.</p> <p>b) Write any one source of X.</p>	3
12	Differentiate between decomposers and scavenger by giving one example of each type. ( Three points)	3
13	Describe any one test for detecting the presence of sugar in the given food item.	3
14	<p>(a) Write any one material that is (a) soluble (b) insoluble in water.</p> <p>(b) Define the term solubility. How does it change on increasing the temperature of water?</p>	3
15	Draw a well labelled diagram that shows the interrelationship between the biotic and the abiotic components of the environment..	3
16	Write any three precautions used while measuring length by using a scale.	3

<p><b>17</b></p>	<p>(A ) Label the following diagram of sublimation</p>  <p>(B) Can a mixture of iodine and camphor be separated by sublimation method give reason for your answer.  (C ) Write any one substance that can sublime easily.</p>	<p><b>5</b></p>
<p><b>18</b></p>	<p>(A) Write any two characteristics of living beings.  (B) Draw a well labelled diagram of unicellular organism “amoeba”</p>	<p><b>5</b></p>



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SET-A

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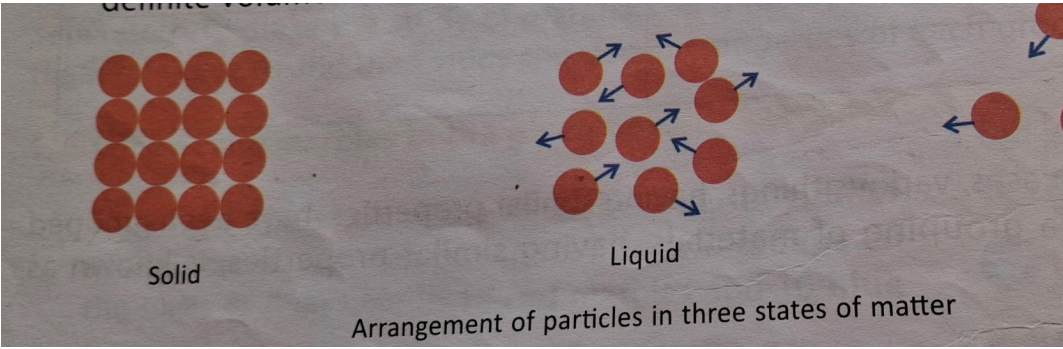
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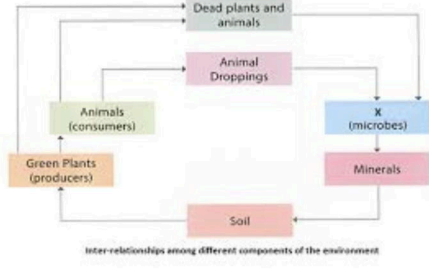
- Any other relevant answer, not given here but given by the candidates, be suitably awarded.
- Marks will be deducted for grammatical errors and wrongly spelled words.

Q. No.		
1	<p>(i) (b) diffusion</p> <p>(ii) a) Growth of a child.</p> <p>(iii) (b) Two years.</p> <p>(iv) b) worms.</p> <p>(v) (b) Rickets.</p> <p>(vi) b) speed up the rate of sedimentation</p> <p>(vii) (b) burned.</p> <p>(viii) (a) Slow.</p> <p>(ix) (b) Amla.</p> <p>(x) b) Vitamin B</p>	1X 10=10
2.	C ) Both assertion and reason is true	1

3	c) Both assertion and reason is true	1
4.	<p>A) 1:Rust is the reddish-brown layer that developed on the iron gate .  2: Rusting of iron is a chemical change.  3 Rust formation on iron is a slow change as it takes longer duration of time.  4 Rust can be prevented by following ways- by painting ,by polishing, ,by greasing, by covering it with zinc metal.</p>	4
	<p>B) 1) Rotational motion  2 It shows Periodic motion.  3 24 hours or one day  4 Rotation and Revolution.</p>	4
5	Decomposition of dead animals turns out to be useful as they convert them into minerals which are useful for plant's growth.	2
6	Measurement helps to measure physical qualities with accuracy with without any mistake.	
7	Formation of curd is an irreversible change as it can not come back to its original form.. Formation of curd is a chemical change as a new substance with different properties is formed.	2
8	<p>a) Ammonium chloride and sand : Sublimation  b) pebbles from rice: Handpicking</p>	2
9	Gas state of matter can easily change its shape and volume as particles are far apart,There is large empty space. Particles can move easily.	2
10	<p>a) Carbohydrates are made up of carbon ,hydrogen and oxygen  b) A diet that contains all the nutrients in the proper amount is called a balanced diet.</p>	2
11	<p>A).  X: Iodine  Y: Thyroid gland  Z: Goitre  Symptom: Swelling in the neck region.</p> <p>B) Iodised salt, Fruits or vegetables</p>	3



12	<p><b>Autotroph:</b>  1 They can make their own food.  2 Chlorophyll is present in them  3 They are known as producers.  4 e.g. All green plants</p> <p><b>Heterotroph:</b>  1 They don't make their own food.  2 Chlorophyll is absent in them.  3 They are known as consumers.  4 e.g. All non- green plants, Animals.</p>	3
13	<p>Take the food sample and rub it on a dry paper. If fats are present in it, it will make a translucent mark on the paper.  Source: Oil ,g</p>	
14	 <p style="text-align: center;">Arrangement of particles in three states of matter</p>	3
15	<p>(a)  <b>Winnowing</b></p> <p>(b) Husk from Wheat grains can be separated by Winnowing.</p> <p>( c )  Salt or Sugar or Pure Water</p>	3
16	<p>1 Silk and wool are obtained from silkworm and sheep.  2 Leather is obtained from the skin of animals .  3 We get milk from different animals like cow,goat etc.</p>	3

<p>17.</p>	<p>(a).Biodegradable materials:  <b>Materials that can be broken down into simpler form by micro organism are called biodegradable materials e.g. Paper,cloth etc.</b>  <b>Non-biodegradable materials: Materials that can't be Broken down into simpler forms by microorganisms are known as Non-biodegradable materials, example, glass metal etc.</b>  <b>(b) Draw a well labelled diagram of mineral cycle in nature.</b></p>  <p style="text-align: center;"><small>Inter-relationships among different components of the environment</small></p>	<p>2+3</p>
<p>18.</p>	<p>(a) Length of pencil= final reading- initial reading  =14.5-2 =12.5 cm</p> <p>(b)  <b>Curvilinear Motion</b></p> <p>(c) The precautions used While measuring the length by using a scale are:  1 The edge of the scale should be Parallel to the length to be measured.  2 Keep the eye vertically above the endpoint.  3 Do not use broken scale while measuring the length.</p>	<p>1+1+3</p>



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SET-B

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Note:

- Any other relevant answer, not given here but given by the candidates, be suitably awarded.
- Marks will be deducted for grammatical errors and wrongly spelled words.

Q. No.	Questions	Marks 1×10=10
1.	<p>I. (a) autotroph</p> <p>II. (d) starch</p> <p>III. (a) It occupy space has mass</p> <p>IV. c) Centrifugation.</p> <p>V. a) Physical</p> <p>VI. a) metre</p> <p>VII. (a) Revolution</p> <p>VIII. a) cells</p> <p>IX. (d) many years</p> <p>X. a) Anaemia.</p>	
2	a) assertion is true and reason is false.	

3	c) Both assertion and reason is true	1
4	<p>Read the following paragraph and answer the following questions:</p> <p>A.) i) An object is in motion if it keeps on changing his position with respect surroundings.</p> <p>ii) Curvilinear motion</p> <p>iii) We are in motion wrt surroundings.</p> <p>iv) Motion of an object along a circular path is called circular motion.</p>	4
	<p>B)</p> <p>i) The reddish-brown layer that developed on the iron nail is called rust.</p> <p>ii) Chemical Change</p> <p>iii) Rust formation on iron is a chemical change because a new substance is formed with different properties.</p> <p>iv) By painting, By polishing, By greasing, By covering it with zinc metal.</p>	
5	Autotroph can make their own food while heterotroph depend on others for their food.	
6	A footstep or a hand span is not used as a standard unit of length as different persons have different handspan or footstep. So we don't get different result for the same distance.	2
7	Formation of Cheese from milk is an irreversible change as we don't get back the original form. Formation Of cheese from milk is a chemical change as a new substance is formed.	2
8	After a dust storm rain help in making air clear as water is used to load the dust particles, so that they don't float in the air.	2

9	<p><b>Solid state of matter cannot easily change its shape and volume as particles are tightly packed. Force of attraction is very -very strong. Particles can not move.</b></p>	2
10	<p><b>Deficiency of iodine is more common in mountainous regions as there soil and water are poor in iodine.</b></p>	2
11	<p>a) Here X- iron,Y- Haemoglobin, Z- Anaemia Symptom- Person looks weak and pale. b) Jaggery,Apple,Guava etc.</p>	3
12	<p><b>Decomposers:</b> They are microorganisms. They convert dead and decaying plants and animals into minerals. e.g. Bacteria, fungi etc <b>Scavenger:</b> They are big animals They take their food from dead animals and don't convert them into minerals. e.g. crow,vulture etc.</p>	3
13	<p><b>Take the given food sample. Add a few drops of Benedict's solution. Carefully heat the test tube. Notice the colour change, if any. If sugar is present, it will turn orange</b></p>	3
14	<p>(a) <b>Soluble: Salt, Sugar</b> <b>Insoluble: Oil,Sand</b></p> <p>b) <b>Solubility : Maximum amount of a substance that can be dissolved in a given amount of water is called Solubility of a substance.</b> <b>Solubility of a substance increases with increase in temperature of wat</b></p>	

<p>15</p>	<p style="text-align: center;">Inter-relationships among different components of the environment</p>	
<p>16</p>	<p>The precautions used While measuring the length by using a scale are:</p> <ol style="list-style-type: none"> <li>1 The edge of the scale should be Parallel to the length to be measured.</li> <li>2 Keep the eye vertically above the endpoint.</li> <li>3 Do not use broken scale while measuring the length.</li> </ol>	<p>3</p>
<p>17</p>	<p>(A )  A Cotton wool.            B solid camphor  C Inverted funnel.        D Burner</p> <p>(B)</p> <p>A mixture of iodine and camphor can be separated by sublimation method because both can sublime on heating.</p> <p>(C )  Naphthalene, Iodine,Camphor,Ammonium chloride</p>	<p>5</p>

18

a) characteristics of living beings.

- 1 Living things can move.
- 2 Living things are made up of cells.
- 3 Living things respire. etc.

5

b) Draw a well labelled diagram of unicellular organism "amoeba"

