



OSDAV Public School, Kaithal  
May Test-2025  
Class: VI  
Subject: Science

Set- B

Time: 1hr 30 min.

M.M.:30

General Instructions: -

1. Read the paper carefully.
2. All the questions are compulsory.

	Questions	Marks
Q.1	<b>Tick the correct option</b> i. Which of the following is soluble in water? a) Mustard oil                      b) Kerosene                      c) Petrol                      d) Lemon juice ii. Biotic environment include- a) Plants                      b) Air                      c) Water                      d) Soil iii) Your table is made up of matter because it- a) Has mass                      b) occupies space c) has mass and occupies space                      d) none of these iv. Soda water is prepared by dissolving _____ gas in water. a) nitrogen                      b) oxygen                      c) carbon dioxide                      d) Helium v. Name the flower that always faces the sun. a) Rose.                      b) Sunflower                      c) hibiscus                      d) Lily	1x5=5
Q.2	<b>Assertion/ Reason</b> i) Assertion: Bacteria and fungi are known as decomposers Reason: Bacteria and fungi breakdown the dead and decaying plants and animals into minerals a) Assertion is true and reason is false b) Assertion is false and reason is true c) Both Assertion and reason are false d) Both Assertion and reason are true	1
Q.3	<b>Read the paragraph and answer the following questions.</b> Materials which can be broken down into simpler substances by microorganisms are called biodegradable materials. The materials which cannot be broken down into simpler substances by microorganisms are called nonbiodegradable materials. It is important for us to segregate biodegradable and non-biodegradable waste and dispose them in an environment friendly way. a) Give an example of biodegradable material. b) Which colour bin is used to dispose off the non-biodegradable material? c) What do you understand by the term vermicomposting? d) Which colour bin is used to dispose off the biodegradable waste?	1x4=4
Q.4	Why is rain water harvesting a ray of hope for overcoming the present scarcity of water in cities?	2
Q.5	Write one terrestrial food chain and one aquatic food chain.	2
Q.6	Define the term solubility. How does it change on increasing the temperature of water?	2

<b>Q.7</b>	Draw a well labelled diagram that shows the relationship between the biotic and abiotic components of the environment.	<b>3</b>
<b>Q.8</b>	State any three activities that can help to save the environment.	<b>3</b>
<b>Q.9</b>	Distinguish between transparent materials and opaque materials. Give one example of each type.	<b>3</b>
<b>Q.10</b>	<p>Answer the following question.</p> <p>a) Which state of matter can easily change its shape and volume and why?</p> <p>b) Draw a neat and well labelled diagram of arrangement of particles in three States of matter.</p>	<b>2+3=5</b>



**OSDAV Public School, Kaithal**  
**May Test-2025**  
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**Set- A**

**Time: 1hr 30 min.**

**M.M.:30**

**General Instructions: -**

- 1. Read the paper carefully.**
- 2. All the questions are compulsory.**

	Questions	Marks
<b>Q.1</b>	<b>Tick the correct option</b> i) Which of the following is soluble in water? a). Mustard oil                      b). Sand                      c). Pebbles                      d) Lemon juice ii. Which of the following is an example of a biodegradable waste? a) Plastic                      b) Glass                      c) Paper                      d) Aluminium foil iii) Your book is made up of matter because it- a) Has mass                      b) occupies space c) has mass and occupies space                      d) none of these iv) In which of the following cases would diffusion be the fastest? a) Gas in another gas.                      b) Liquid in another c) Solid in a liquid.                      d) A gas in a liquid v) Name the flower that always faces the sun. a) Rose.                      b) Sunflower                      c) Hibiscus                      d) Lily	<b>1x5=5</b>
<b>Q.2</b>	<b>Assertion/ Reason</b> i)Assertion: Crows and jackals are known as scavengers. Reason: Crow and jackals consume dead bodies of animals. a) Assertion is true and reason is false b) Assertion is false and reason is true c) Both Assertion and reason are false d) Both Assertion and reason are true	<b>1x1=1</b>
<b>Q.3</b>	<b>Case study-</b> The temperature at a place is indicative of the degree of hotness or coldness of that place. Temperature affects activities of living organisms. It is an important factor that determines the distribution of plants and animals on earth. Each organism has its own tolerance range for temperature. Most plants and animals grow in warm places but some need a cold climate.  a) Name the device that is used to measure the temperature. b) Why do buffaloes cool themselves in water during summer? c) How do camels can tolerate even the extreme heat of the deserts? d) Give one example of animals that are found only in cold regions.	<b>1x4=4</b>
<b>Q4.</b>	Differentiate between autotrophs and heterotrophs. (02 Points)	<b>2</b>
<b>Q5.</b>	Define the following term - a) Solubility b) Opaque materials	<b>2</b>

<b>Q6.</b>	“We should segregate biodegradable and non biodegradable waste and dispose them in an environment friendly way” Justify the statement.	<b>2</b>
<b>Q7.</b>	Suggest any three activities that can help to save the environment.	<b>3</b>
<b>Q8.</b>	Briefly describe an activity to show that pure water is a transparent liquid.	<b>3</b>
<b>Q9.</b>	Draw a well labelled diagram of arrangement of particles in three States of matter.	<b>3</b>
<b>Q10.</b>	<b>a)</b> How does nature maintain a balance between Oxygen and carbon dioxide in the atmosphere? <b>b)</b> Draw a well labelled diagram of nature tries to maintain a balance between Oxygen and carbon dioxide.	<b>2+3=5</b>



**O.S.D.A.V. Public School, Kaithal**

**PT1 2025**

**Answer Key**

**Subject : Science**

**Class : VI**

**Set A**

**Time:- 1:30 hrs.**

**M.M.:-30**

**Note:**

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

	Questions	Marks
Q.1	i. d) Lemon juice ii. c) Paper iii) c) has mass and occupies space iv) a) Gas in another gas. v) b) Sunflower	1x5=5
Q.2	<b>Assertion/ Reason</b> i) Assertion: Crows and jackals are known as scavengers. Reason: Crow and jackals consume dead bodies of animals  d) Both Assertion and reason are true	1x1=1
Q.3	<b>Case study-</b> a) Thermometer is used to measure the temperature. b) This is because buffaloes are black in colour and black colour is a good absorber of heat. Also they do not have efficient sweat glands c) Camels do not have sweat glands. This helps them to reduce the loss of water from their body. d) Animals that are found in cold regions are Polar bear, Penguin	1x4=4
Q.4	<b>Autotrophs</b> They can make their own food. They are known as producers. e. g. green plants <b>Heterotrophs</b> They cannot make their own food. They are known as consumers. e.g. animals and human beings	2
Q.5	<b>Define the following term -</b> a) Solubility - The maximum amount of a substance that can be dissolved in a given volume of water is known as the solubility of that substance in water. b) Opaque materials - The materials which do not allow light to pass through them are known as the opaque materials.	2

Q.6	We should segregate different types of waste in an environmentally friendly manner because some wastes are biodegradable which can be used to make compost and some wastes are non biodegradable which can be recycled.	2
Q.7	Three activities that can help to save the environment are- a) Grow more and more trees. b) Do not use the polythene bags. c) Use Twin bin system.	3
Q.8	Take an empty glass tumbler and fill it with pure water. Hold it against light and look through it .We can see the light on the other side of the tumbler. This activity shows that pure water is a transparent liquid	3
Q.9	Draw a well labelled diagram of arrangement of particles in three States of matter.	3
Q.10	Answer the following question. a) During the process of respiration both plants and animals take in oxygen and give out carbon dioxide. Plants use up carbon dioxide and give out oxygen during the process of photosynthesis . In this way , a balance of Oxygen and carbon dioxide is maintained in the atmosphere. b) Draw a well labelled diagram of nature tries to maintain a balance between Oxygen and carbon dioxide.	2+3



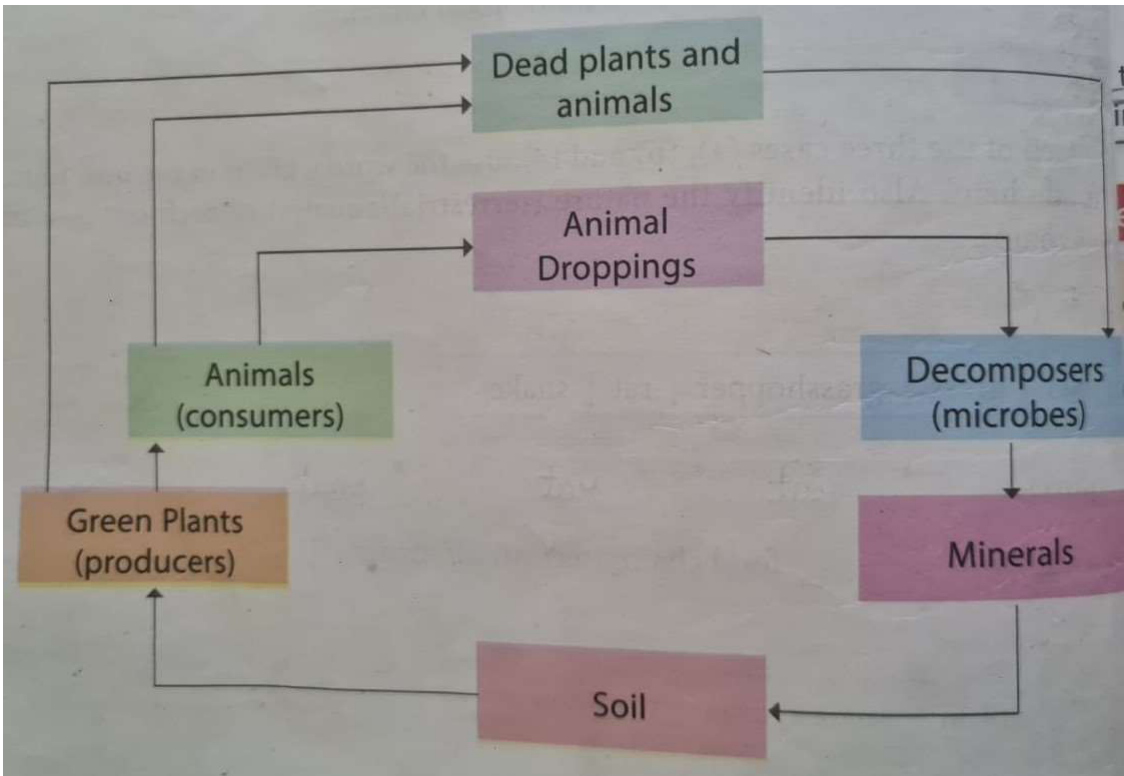
Time:- 1:30 hrs.

M.M.:-30

**Note:**

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

	Questions	Marks
Q.1	<b>Tick the correct option</b> i. d. Lemon juice ii. a) Plants ii. c) has mass and occupies space iv. c) carbon dioxide v. b) Sunflower	1x5=5
Q.2	<b>Assertion/ Reason</b> i)Assertion: Bacteria and fungi are known as decomposers Reason: Bacteria and fungi breakdown the dead and decaying plants and animals into minerals d) Both Assertion and reason are true	1x1=1
Q.3	a) Example of biodegradable material are paper and cloth . b) Blue colour bin is used to dispose off the non-biodegradable materials. c) The process of forming compost with the help of worms is known as vermicomposting. d) Green colour bin is used to dispose off the biodegradable waste.	1x4=4
Q.4	Rain water harvesting is a ray of hope for overcoming the present scarcity of water in cities because by this method rainwater can be used for household purposes after purification and filtration.	2
Q.5	Terrestrial food chain Grass ---deer ---lion Aquatic food chain Algae ---fish ---seal--- shark	2
Q.6	The maximum amount of a substance that can be dissolved in a given volume of water is known as the solubility of that substance in water	2

	On increasing the temperature the solubility of the substance also increases.	
Q.7	<p>Draw a well labelled diagram that shows the relationship between the biotic and abiotic components of the environment.</p>  <pre> graph TD     GP[Green Plants (producers)] --&gt; AN[Animals (consumers)]     AN --&gt; DPA[Dead plants and animals]     AN --&gt; AD[Animal Droppings]     DPA --&gt; D[Decomposers (microbes)]     AD --&gt; D     D --&gt; M[Minerals]     M --&gt; S[Soil]     S --&gt; GP </pre>	3
Q.8	<p>Three activities that can help to save the environment are</p> <p>Grow more and more trees.</p> <p>Use rain water harvesting.</p> <p>Don't use the polythene bags.</p>	3
Q.9	<p>Transparent materials-the materials which allow light to pass through them are called transparent materials.e.g pure air, pure water</p> <p>Opaque materials- The materials which do not allow light to pass through them are known as opaque materials.e.g. wall. blackboard</p>	3
Q.10	<p>Answer the following question.</p> <p>a) Gaseous state of matter can easily change its shape and volume because in gases particles are far apart. They can move easily . Force of attraction between the particles is very less</p> <p>b) Draw a neat and well labelled diagram of arrangement of particles in three States of matter.</p>	2+3



