



Name _____

Roll No. _____

Time allotted: 3hrs.

Mid Term Test (September 2023)

Class IV _____

M.M: 80

Date: 14-09-2023

Subject – Science

SECTION – A

Tick the correct answer.

(10)

- 1) An antiseptic lotion is applied in case of _____.
a) fracture b) fainting c) cuts and wounds d) all of these
- 2) One can apply baking soda paste on _____.
a) bleeding nose b) wasp bite c) blister d) bruise
- 3) Which of the following is soluble in water?
a) Rice b) Stone c) Sugar d) All the above
- 4) Removing the green pigment in a leaf is called _____.
a) chlorophyll b) photosynthesis c) breathing d) bleaching
- 5) This tooth help us to tear pieces of food.
a) Incisors b) Canines c) Premolars d) Molars
- 6) In what form is extra food stored in plants?
a) Oxygen b) Starch c) Chlorophyll d) Water vapour
- 7) Which state of matter have a fixed shape and volume?
a) Solids b) Liquids c) Gases d) All of these
- 8) These are the openings on the underside of the leaf.
a) Starch b) Leaf blade c) Stomata d) Leaf stalk
- 9) Name the program that helps to promote planting of trees.
a) Project Tiger b) Operation Birds c) Vanamahotsava d) Both a and b
- 10) Converting used items into raw material is called _____.
a) reducing b) dumping c) reusing d) recycling

11. Fill in the blanks.

(5)

- a) Pneumonia and typhoid are caused by _____.
- b) Moulds and _____ are non-green plants.
- c) Children should make a _____ to board the school bus.
- d) One should wear _____ clothes while working in the kitchen.
- e) Coal, petrol and diesel release _____ on burning.

12. Give one word answer.

(5)

- a) These are the harmful substances which pollute air, water and land.
- b) The green coloured substance found in leaves.
- c) They cause diseases like flu and common cold.
- d) Starch give blue black colour with this solution.
- e) This gas is used for breathing.

13. True / False

(4)

- a) Oxygen and water vapours are released during photosynthesis.
- b) In a water sugar solution, water is a solute.
- c) A first aid box need to be kept handy for immediate help.
- d) A new born baby has no teeth.

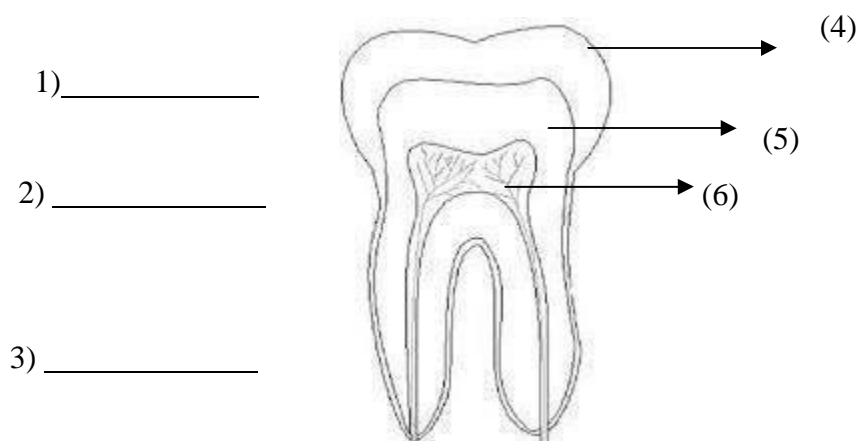
14. Give two examples of:

(4)

- a) Non -biodegradable waste
- b) Things that can be recycled

15. Label the diagram of structure of a tooth:

(4)



Section B

16. Give reason :

(2.5 x2=5)

- a) Smell of perfume spread quickly in the room. _____.
- b) Teeth are important to us. _____.

Section C

(2x5 = 10)

- 17) Write four conditions that help microbes to grow
- 18) What are molecules?
- 19) What is biodegradable waste?
- 20) Leaves of croton appear dark red. Do these leaves have chlorophyll?
- 21) What is first aid?

Section D

(3x5=15)

- 22) What are microbes? Name two diseases caused by protozoa.
- 23) Write two ill effects of water pollution.
- 24) How will you help a person who has a bleeding wound?
- 25) How are solids and gases different from each other?
- 26) When sugar is dissolved in water the volume of the solution does not change. Why? Draw a well labelled diagram.

Section E

(4x2=8)

- 27) A balance between plants and animals is essential. Why? Draw a well labelled diagram.
- 28) How are some microbes useful for us?

Section F

(5x2=10)

- 29) How will you show that a green leaf has starch in it?
- 30) a) How will you help a person who has fainted?
b) What are the functions of molars and premolars?

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Answer Key

SECTION – A

Tick the correct answer.

(10)

- 1) An antiseptic lotion is applied in case of _____.
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- 9) Name the program that helps to promote planting of trees.
a) Project Tiger b) Operation Birds **c) Vanamahotsava** d) Both a and b
- 10) Converting used items into raw material is called _____.
a) reducing b) dumping c) reusing **d) recycling**

11. Fill in the blanks.

(5)

- a) Pneumonia and typhoid are caused by **bacteria**.
- b) Moulds and **mushrooms** are non-green plants.
- c) Children should make a **queue** to board the school bus.
- d) One should wear **cotton** clothes while working in the kitchen.
- e) Coal, petrol and diesel release **smoke** on burning.

12. Give one word answer.

(5)

- | | |
|--|--------------------|
| a) These are the harmful substances which pollute air, water and land. | <u>Pollutants</u> |
| b) The green coloured substance found in leaves. | <u>Chlorophyll</u> |
| c) They cause diseases like flu and common cold. | <u>Virus</u> |
| d) Starch give blue black colour with this solution. | <u>Iodine</u> |
| e) This gas is used for breathing. | <u>Oxygen</u> |

13. True / False

(4)

- | | |
|---|--------------|
| a) Oxygen and water vapours are released during photosynthesis. | <u>True</u> |
| b) In a water sugar solution, water is a solute. | <u>False</u> |
| c) A first aid box need to be kept handy for immediate help. | <u>True</u> |
| d) A new born baby has no teeth. | <u>True</u> |

14. Give two examples of:

(4)

- | | | |
|--------------------------------|----------------|----------------|
| a) Non-biodegradable waste | <u>Plastic</u> | <u>Glass</u> |
| b) Things that can be recycled | <u>Paper</u> | <u>Plastic</u> |

15. Label the diagram of structure of a tooth:

(4)

1. Crown
2. Neck
3. Root
4. Enamel
5. Dentine
6. Pulp

Section B**16. Give reason:**

(2.5 x2=5)

- a) Smell of perfume spread quickly in the room.

Ans. Because the molecules of the gas are very loosely packed. So, they flow very easily.

- b) Teeth are important to us.

Ans. Teeth are important to us as they give proper shape to our face, help us to speak clearly, enable to us to bite and chew and make our smile beautiful.

Section C

(2x5 = 10)

17) Write four conditions that help microbes to grow.

Ans. Warmth, moisture, food and air are four conditions that help microbes to grow.

18) What are molecules?

Ans. Molecules are the smallest substances that can exist independently.

19) What is biodegradable waste?

Ans. Some wastes like fruit and vegetable peels, things made out of paper and wood decompose or rot. Finally, they get mixed with soil. Such waste is called biodegradable waste.

20) Leaves of croton appear dark red. Do these leaves have chlorophyll?

Ans. Yes, leaves of croton have chlorophyll but they appear dark red due to dominance of other pigment.

21) What is first aid?

Ans. First aid is the medical help given to an injured or a sick person before proper medical aid arrives.

Section D

(3x5=15)

22) What are microbes? Name two diseases caused by protozoa.

Ans. Microbes are tiny living things which can only be seen through a microscope. However they are found everywhere wherever they find warmth, moisture, food and air. They may grow in soil, in water, inside or outside our body or in bodies of other animals . Malaria and dysentery are two diseases caused by protozoa.

23) Write two ill effects of water pollution.

Ans. The two ill-effects of water pollution are:

a) It harms aquatic life.

b) It causes diseases in human like diarrhoea.

24) How will you help a person who has a bleeding wound?

Ans. . a) First wash the minor wound with water.

b) Apply an antiseptic lotion over it.

c) If there is bleeding, try to stop it by tying a bandage on the cut.

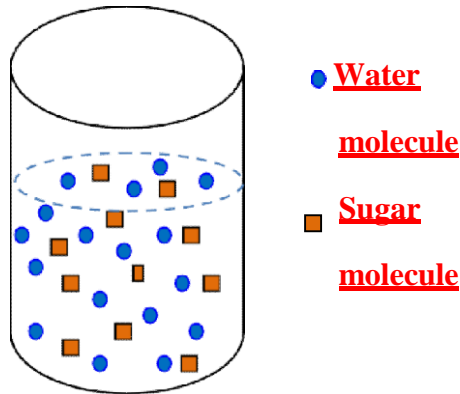
25) How are solids and gases different from each other?

Ans.

SOLIDS	GASES
1. It has fixed shape and volume	1. It doesn't have fixed shape and volume.
2. Molecules are tightly packed.	2. Molecules are loosely packed.
3. Eg: ice, sugar, etc	3. Eg: oxygen, LPG, etc

26. When sugar is dissolved in water the volume of the solution does not change. Why? Draw a well labelled diagram.

Ans. When sugar is dissolved in water, the volume of the solution does not change because sugar molecules does not take up any extra space. Its molecules only fill up the empty space between the molecules of water.



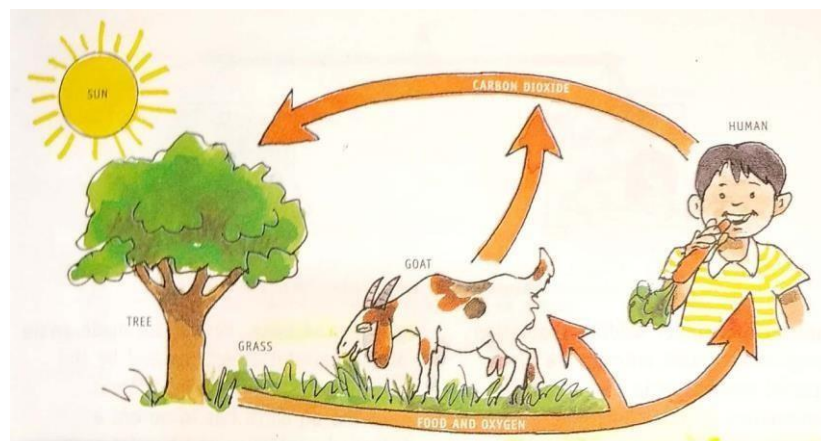
Sugar (Solute) + Water (Solvent) = Sweet water (Solution)

Section E

(4x2=8)

27) A balance between plants and animals is essential. Why? Draw a well labelled diagram.

Ans. . Animals and plants depend on each other. Plants give animals food to eat and oxygen to breathe. Animals breathe in this oxygen and give out carbon dioxide to prepare food during photosynthesis to plants and animals as both are needed to maintain the right balance in nature.



Interdependence between plants and animals

28) How are some microbes useful for us?

Ans. **Some microbes are useful to us. Some bacteria -**

- a) change milk into curd.**
- b) produce vitamins in our body.**
- c) help in decaying of dead plants and animals.**
- d) help in digestion of roughage.**

Section F

(5x2=10)

29) How will you show that a green leaf has starch in it?

1. Ans. **Ans. 1. Pick a green leaf of a healthy plant.**

- 2. Bleach the leaf by first boiling it in alcohol.**
- 3. Wash it in cold water. Add few drops of iodine.**
- 4. When you add iodine to the bleached leaf, it turns blue black.**

This shows that starch is present in a green leaf.

30) a) How will you help a person who has fainted?

Ans. . **a) If a person has fainted , make him lie down with his head at a level lower than the body.**

- b) This helps the blood to reach his brain faster. Allow fresh air around the person.**
- c) Loosen his clothes and sprinkle cold water on his forehead.**
- d) Let the person rest quietly. Call a doctor.**

b) What are the functions of molars and premolars?

Ans. **Molars : help us to grind food.**

Premolars : help us to crush food.