

Name _____

Class IV

Date: 05-03-2024

Roll No. _____

Final Term Test (2023-2024)

Max Marks: 80

Time allotted: 3 hrs

Subject: Science

Section A

I. Tick the correct answer. (10)

1. One should apply a paste of baking soda and cold cream on the affected part, if _____
a) a bone is broken b) a person faints c) there is minor cut d) bitten by an insect
2. Which of the following chemical is NOT used to purify water?
a) Chlorine b) Baking powder c) Bleaching powder d) Potassium permanganate
3. It is a machine which looks like a nail with grooves cut into it.
a) Wedge b) Screw c) Pulley d) Lever
4. It means converting used items into raw material.
a) Reusing b) Reducing c) Recycling d) Refusing
5. Which of these grows in hot and damp places?
a) Mango tree b) mangrove tree c) coconut tree d) all of these
6. What causes harm to life and property?
a) Insect bite b) Accident c) Fainting d) none of these
7. This animal can live both on land and in water.
a) Salamander b) Crab c) Whale d) Arctic fox
8. One should wear these clothes while working in the kitchen.
a) synthetic b) nylon c) cotton d) all the above
9. Polluted water causes various diseases like _____.
a) Typhoid b) Chicken pox c) Diarrhoea d) both a and c
10. The stone rolled down the slope and fell into the river. Name the force used in this case.
a) Muscular b) Mechanical c) Gravitational d) Elastic

11. Fill in the blanks: (5)

- a) Aquatic animals and plants are adversely affected by _____ and _____ that reach the water.
- b) _____ are thick forests found near the equator.
- c) Use a _____, if you are not an expert swimmer.
- d) The place where a plant lives and grow is called its _____.
- e) A push or pull on an object is called _____.

12. Give one word answer:

- a) To blend with their surroundings _____
- b) It is applied in case of cuts and wounds _____
- c) These are the harmful substances which pollute air, water and land _____
- d) The energy obtained from the hot interior of the earth _____
- e) A plant that has breathing roots _____

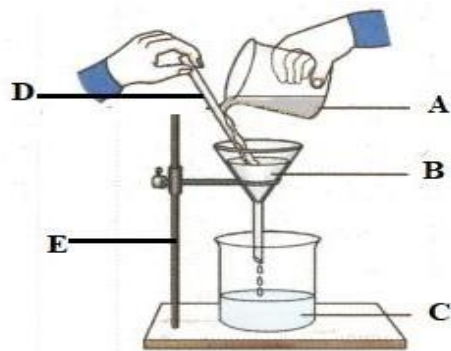
13. Give two examples each of the following: (4)

- a) Bio degradable waste _____
- b) Parasites _____
- c) Arboreal animals _____
- d) Insectivorous plants _____

14. True/ False (5)

- 1. A first aid box needs to be kept handy for immediate help. _____
- 2. In electronic motors, electrical energy is changed into solar energy. _____
- 3. The force exerted by the muscles of our body is muscular force. _____
- 4. A wound exposed to dust and flies may lead to infection. _____
- 5. The full form of LPG is liquefied pumping gas. _____

15. Identify and label the diagram. (3)



F _____

SECTION B

16. Give reasons. (2 x 2.5 = 5)

- a) Work done is zero by a person carrying 2 kg load on his head and standing still.

- b) Aerial animals have light bodies.

SECTION C

Answer the following questions.

(5 x 2 = 10)

17. Name four products of bamboo plant.
18. How is condensation different from evaporation?
19. How do simple machines help us?
20. How do animals living in cold regions keep themselves warm?
21. What do you mean by landfills?

SECTION D

Answer the following questions.

(5 x 3 = 15)

22. How does venus flytrap eat insects?
23. What are the different ways by which animals protect themselves?
24. Give two differences between fog and mist.
25. Write two ways by which air pollution can be controlled.
26. The frog is an amphibian. How is it adapted to live on land and in water?

SECTION E

Answer the following questions.

(2 x 4 = 8)

27. a) Write a short note on atomic energy.
b) Name and draw any four simple machines.
28. What is sea breeze? How does it occur? Explain with the help of a well labelled diagram.

SECTION F

Answer the following questions.

(2 x 5 = 10)

29. What are different ways of purifying water?
30. What are the main uses of the plants of the grass family?

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Section A

I. Tick the correct answer.

(10)

- One should apply a paste of baking soda and cold cream on the affected part, if _____
a) a bone is broken b) a person faints c) there is minor cut **d) bitten by an insect**
- Which of the following chemical is NOT used to purify water?
a) Chlorine **b) Baking powder** c) Bleaching powder d) Potassium permanganate
- It is a machine which looks like a nail with grooves cut into it.
a) Wedge **b) Screw** c) Pulley d) Lever
- It means converting used items into raw material.
a) Reusing b) Reducing **c) Recycling** d) Refusing
- Which of these grows in hot and damp places?
a) Mango tree b) Mangrove tree **c) Coconut tree** d) all of these
- What causes harm to life and property?
a) Insect bite **b) Accident** c) Fainting d) none of these
- This animal can live both on land and in water.
a) **Salamander** b) Crab c) Whale d) Arctic fox
- One should wear these clothes while working in the kitchen.
a) Synthetic b) Nylon **c) Cotton** d) all the above
- Polluted water causes various diseases like _____.
a) Typhoid b) Chicken pox c) Diarrhoea **d) both a and c**
- The stone rolled down the slope and fell into the river. Name the force used in this case.
a) Muscular b) Mechanical **c) Gravitational** d) Elastic

11. Fill in the blanks:

(5)

- Aquatic animals and plants are adversely affected by **fertilizers** and **chemicals** that reach the water.
- Rainforests** are thick forests found near the equator.
- Use a **swimming tube**, if you are not an expert swimmer.
- The place where a plant lives and grow is called its **habitat**.
- A push or pull on an object is called **force**.

12. Give one word answer:

- | | |
|-----------------------------------------------------------------------|--------------------------|
| a) To blend with their surroundings | <u>Camouflage</u> |
| b) It is applied in case of cuts and wounds | <u>Antiseptic lotion</u> |
| c) These are the harmful substances which pollute air, water and land | <u>Pollutants</u> |
| d) The energy obtained from the hot interior of the earth | <u>Geothermal energy</u> |
| e) A plant that has breathing roots | <u>Mangroves</u> |

13. Give two examples each of the following: (4)

- | | |
|-------------------------|-------------------------------------|
| a) Bio degradable waste | <u>vegetable peel , paper waste</u> |
| b) Parasites | <u>leeches , worms</u> |
| c) Arboreal animals | <u>squirrel , monkey</u> |
| d) Insectivorous plants | <u>pitcher plant , sundew</u> |

14. True/ False (5)

- | | |
|--------------------------------------------------------------------------|--------------|
| 1. A first aid box needs to be kept handy for immediate help. | <u>True</u> |
| 2. In electronic motors, electrical energy is changed into solar energy. | <u>False</u> |
| 3. The force exerted by the muscles of our body is muscular force. | <u>True</u> |
| 4. A wound exposed to dust and flies may lead to infection. | <u>True</u> |
| 5. The full form of LPG is liquefied pumping gas. | <u>False</u> |

15. Identify and label the diagram. (3)

- A Muddy water
- B Funnel
- C Filtrate
- D Glass rod
- E Iron stand
- F Filtration

SECTION B

16. Give reasons. (2 x 2.5 = 5)

- c) Work done is zero by a person carrying 2 kg load on his head and standing still.

Ans. Work done is zero because there is no movement.

As we know, $W = F \times S$
Here, $S = 0$
 $W = F \times 0$
 $W = 0$

- d) Aerial animals have light bodies.

Ans. Aerial animals have light bodies because they have hollow bones which help them to fly easily as wings cannot support heavy bodies.

SECTION C**(2 x 5 = 10)****Answer the following questions.**

17. Name four products of bamboo plant.

Ans. Brooms, baskets, chairs and mats are some of the products of bamboo plant.

18. How is condensation different from evaporation?

Ans. Condensation is the change of water vapours into drops of water on cooling whereas evaporation is the change of water into water vapours on heating.

19. How do simple machines help us?

Ans. Simple machines help us to:

- 1. Do our work faster and with less effort.**
- 2. Change the direction of force used.**
- 3. Do work with less force.**

20. How do animals living in cold regions keep themselves warm?

Ans. Polar bear lives in very cold regions. They have adapted by having fur on their bodies to keep them warm, and by storing fat under the skin to be used as food in winters.

21. What do you mean by landfills?

Ans. Landfills are big pits made outside the cities to dump waste into them and then they are covered with soil. These places are then used as parks and playgrounds.**SECTION D****Answer the following questions.****(3 x 5 = 15)**

22. How does venus flytrap eat insects?

Ans. In venus flytrap, the leaf is folded into two halves. When an insect sits on the leaf, the two halves close and the insect is trapped, which is then digested by the plant.

23. What are the different ways by which animals protect themselves?

Ans. Animals protect themselves by:

- a) moving very fast. For eg: fish, houseflies, etc.**
- b) having very large size such as hippos, whales etc.**
- c) camouflaging with the surroundings so that they cannot be seen by their enemies such as zebra, tiger, leopard , etc.**

24. Give two differences between fog and mist.

FOG	MIST
1. It occurs when thick clouds of tiny drops form just above the land or water.	1. It occurs when the water vapours in the air condenses to form very small particles of dust or smoke present in the air.
2. It is denser than mist.	2 It is lighter than fog.

25. Write two ways by which air pollution can be controlled.

Ans. The two ways by which air pollution can be controlled are:

a) Regular pollution check of vehicles should be there.

b) Tall chimneys with filters must be fitted in factories to release smoke and gases away from populated places.

26. The frog is an amphibian. How is it adapted to live on land and in water?

Ans. The frog is an amphibian. It has moist skin which helps them to breathe in water and lungs to breathe on land.

SECTION E

Answer the following questions.

(4 x 2 = 8)

27. a) Write a short note on atomic energy.

Ans. Atomic energy comes from splitting of an atom. It can be used for betterment and for destruction of mankind. Example: it can be used to produce electricity as well as for preparing atom bombs.

b) Name and draw any four simple machines.

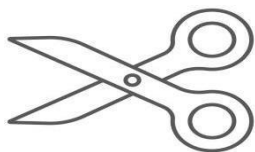
Ans. The four simple machines are:

a. Lever

b) Pulley

c) Wedge

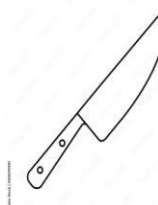
d) Inclined plane



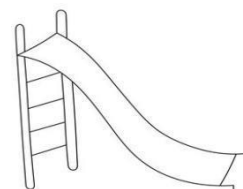
Scissors



Well



Knife



Slide

28. What is sea breeze? How does it occur? Explain with the help of a well labelled diagram.

Ans. During the day, the land gets heated quickly but the sea does not. When the air above the hot land gets heated, it rises as it is light in nature. Cool air over the sea rushes in to take its place. Thus, a cool breeze blows towards the land during the day. This is called sea breeze.



SECTION F

Answer the following questions.

(5 x 2 = 10)

29. What are different ways of purifying water?

Ans. Different ways of purifying water are –

a) Sedimentation – In this method the insoluble impurities are made to settle down and clear water is separated from impurities by decantation.

b) Decantation – The process of purifying liquid by pouring the liquid from one container to another without disturbing the sediments.

c) Filtration – In this method water is filtered to remove finer suspended particles.

d) Chlorination – In this method water is disinfected with chlorine gas to kill germs (bacteria's).

30. What are the main uses of the plants of the grass family?

Ans. The main uses of the plants of the grass family are:-

a) The cereal plant of the grass family provides food for humans and animals.

b) They are used in preparing medicines.

c) The bamboo plant provides us food as well as used to make things like mats and chairs.

d) Dried grass is used as packing material.

e) Papyrus is used to make paper.