JASWANT MODERN SR.SEC.SCHOOL CLASS- 4 SUB- SCIENCE WINTER VACATION WORKSHEET (2023-24) SET-A

Q1.Answer the following questions:

1.Explain law of conservation of energy. 2.Explain work 3.How does a solute dissolve in a solvent? 4.Describe formation of soil. 5.What is Vana Mahotsava? 6.People in different places wear different types of clothes. Why? 7.Why is stomata absent in underwater plantsh.8.How do underwater plants help to keep the water clean? 9.How plants and animals are interdependent on each other? 10.How do plants use the food they make? 11.Are decomposers nature's friend? 12.Write adaptations of birds? 13.What are the different ways by which animals protect themselves? 14.Explain how a solution in prepared. 15.Why do plants like rice grow well in clayey soil? 16.How are days and nights caused? 17.Why is earth the only planet on which life exists? 18. What is underground water? 19.How matter changes its forms? 20.List affects of sir pollution. 21. What is technology? 22.How does technology affects our life? 23What are simple machines? 24.Explain law of conservation of energy. 25.Explain gravitational force. 26.Write advantages of frictional force . 27.Write disadvantages of friction. 28.What is equator? 29.Do renewable sources create pollution? 30.How does season occur? 31.Write uses of artificial satellites 32.Write different effects of force.

Q2.Define

1.Pathogens. 2.Capillaries. 3.Friction 4.Season 5.Energy 6.Force 7.Matter 8.Solute 9.Solvent 10.Adaptations 11.Habitat 12.Microbes 13.Microscope 14.Telescope 15.Balanced diet 16.Preservation of food 17.Transpiration 18.Chlorophyll 19.Amphibians 20.Solar energy. 21.Simple machines. 22.Weathering 23.Humus 24.Fertile soil 25.Universe. 26.Orbit 27.Artificial satellite 28.Mangroves 28.Health. 29.Hygiene 30.Planets 31.Subsoil 32.Filtration 33.Galaxy. 34.Germs. 35. Invention 36.Diarrhoea. 37.Dentine. 38 .Digestion. 39.Reproduction. 40.Satellite

Q3.Distinguish between

1.Equator and axis 2.Planets and stars 3.Physical and Chemical changes 4.Molars and premolars 5.Artificial and man made satellites. 6.Energy giving nutrients and body building nutrients 7.Hibernation and aestivation 8.Arboreal animals and aerial animals 9.Gravitational force and geothermal energy. 10. Rotation and revolution. 11.Evaporation and condensation 12.Melting and freezing 13.Mangroves and xerophytes 14.Communicable and non communicable diseases 15.Northern and southern hemisphere 16.Tropic of cancer and tropic of capricorn 17.Solids and liquids 18.Enamel and dentine. 19.Temporary teeth and permanent teeth. 20.Soil erosion and soil conservation

Q3.Fill in the blanks:

1……..grow on dead and decaying matter. 2…….. is visible part of tooth. 3.Non green plants do not have…… 4……..is an example of lever. 5……. Is the highest mountain in solar system. 6.A liquid has a definite…….but no definite …….. 7.Soil is a …… resource 8…… is a soil that holds very little water. 9.Solar system consist ……..known planets 10.Sunlight falls ……on the equator throughout the year. 11.Rubbing of comb on hair causes…….force. 12……..can stop a moving object. 13…… is an example of simple machine. 14…….. is the ultimate source of energy. 15……. Is a biotic component on earth. 16…….. is a dwarf planet. 17……causes change in weather. 18.All planets move on a fixed path called…… 19. Venus rotates ……..20…… is a mixture of sand clay and humus. 21……makes the soil fertile. 22……. Is the hardest part of the body. 22.Formation of soil is a …….process. 23…….has made us lazy 24…….teeth are also called temporary teeth. 25.Hydrilla is an…….. Plant. 26.Do not leave food …… to flies. 27.Stars appear small in size because they are…….. 28.Protection of soil from erosion is called …….. 29.Cutting terrace along hill slopes can reduce……

Q4.Give reason

1.Photosynthesis do not take place at night. 2.Desert plants have thick stems 3.Melting of ice is a physical change 4.Cactus makes food in its stem. 5.Lizards are not visible in house during winters. 6.Polar can survive in polar regions. 7.Camel has long eyelashes. 8.Terrestrial animals have strong legs. 9.Liquids take shape of the container. 10.Air is a matter 11.Soil is called natural resource. 12.Clay is used to make toys and pots. 13.When it is day in India , it is night at America. 14.Sun is considered as ultimate source of energy. 15.We should wear helmet while driving a two wheeler. 16.While sneezing we should cover our mouth. 17 We should brush our teeth twice a day.

Q5.Write true or false:

1.Factories waste should be thrown in rivers. ( ) 2.A physical change is a permanent change.( ) 3.In sugar solution, sugar is a solvent.( ) 4.Pine grow well in cold regions.( ) 5.Snakes have scales to crawl.( ) 6.Parasites eat only plants.( ) 7.Camel cannot live without water for long time.( ) 8.We should not use polythene.( ) 9.Food spoils faster in winter season.( ) 10. Butter contains protein. ( ) 11.Roughage is a plant fiber ( ) 12.Technology is important for growth and development. ( ) 13.We live in milky way galaxy.( ) 14. We should keep water and food for animals.( ) 15. Friction does not allow us to walk.( )

Q6.Give two examples of each:

1.Parasites. 2.Force. 3.Energy. 4.Complex machines 5.Muscular Force 6.Artificial satellites. 7.Planets. 8.Stars. 9.Pollution 10.Methods of preservation of food. 11.Aerial animals. 12.Animals undergo hibernation. 13.Animala undergo aestivation. 14.Solute. 15.Solution 16.Xerophytes 17.Mangroves 18.Animals with blubber 19.Technological tools 20.Pollutants 21.Solid 22.Liquid 23.Gases 24.Matter 25.Chemical changes 26.Physical changes 27.Flower we eat 28.Leaves we eat 29.Types of soil 30.Layers of soil. 31. Teeth. 32

Q7.Draw and label:

1.Internal structure of earth 2.Internal structure of an egg 3.Photosynthesis 4.Movements of Earth 5.Molecular arrangement in liquid 6.Stomata 7.Solar system

Q8.Project work:

1.Cut and paste different technological tools in scrapbook and write about its advantages and disadvantages.(roll no.1 to 6)

2.Collect information about chandrayaan-3 and paste pictures related with it in scrapbook. (Ro no.7 to 15)

3.Collect information about any 3 insectivorous plants and paste pictures related with plants in scrapbook. (Roll no 16 to 21)

JASWANT MODERN SR.SEC.SCHOOL CLASS- 4 SUB- SCIENCE WINTER VACATION WORKSHEET (2023-24) SET-B

Q1 Fill in the blanks

1. Cooking of food ia a ____ change 2. ___ are the tiny particles that make up matter.
3.The change of water into water vapor is calles____. 4. Misuse of technology is due to ___

5. Spinning around the axis is called____. 6. _____ trees has a needle like leaves. 7. The topmost layer of the soil is _____ in colour. 8. Bodies fall down because of ____ force. 9.The brightest star is called____. 10.____ is a desert plant. 11.Cutting trees along hill slopes can reduce _____ 12. The base of the soakage pit should be _____ . 13.Land plants are caled___. 14 _____ is the natural stelite of the earth.

Q2 Answer the following questions:

1 What are mammals? Give four examples of mammals. 2.Define energy.Give three different forms of energy. 3. What is a solvent? Name two solvents. 4. Define soil conservation. 5. List four ways by which you can conserve natural resources. 6. List three ways you use technolog in your daily life. 7 Whatdo you understand by 3 Rs. 8.Define humus. 9 Write the symptom of diarrhea. 10. Write any three disadvantages of friction. I11.Write the difference between planets and satellite 12. Name two factors which cause changes in weather. 13. What is technology? Do you think it is necessary in our life? 14 Name four kinds of teeth? 15.List the causes of water pollution. 16.What is the function of small intestine? 17. Make a flow chart of any device to show change in technology. 18 Name two disses prevalent in the rainy reason. 19 Explain the kinds of teeth. 20.What is condensation?

Q3 Give reasons :

1 We can get our wet clothes dried sooner under a fan. 2 We must protect and conserve natural resources. 3. A balance between a number of plants and animals essential. 4. People discovered and invented new tools and machines. 5 Ventilators are constructed above the window . 6 We must take good care of our teeth. 7.We should avoid eating junk food. 8 We need different types of teeth.

Q4 Give two example of each:

1 Ambhibians 2 Carbohydrates 3 Artificial satellites 4 Desert plants 5 Physical changes 6 Aerial nimals 7. Protective foods 8 Solute 9 Transparent objects 10 Opaque objects

Q5 Name the following:

1 A change in which New substance is formed 2. A push or a pull 3.A plant that et inects 4 Land plants are called_ 5. The ultimate ource of energy 6 The planet nearest to the sun 7.The young ones of cow 8 A floating plant 9 The most widely used material in technology 10.The planet farthest from sun.

Q6 Pick the odd one out and give reason:

1.Cholera , Typhoid , Cancer , Dysentery 2 Scissors, knife , needle , washing machine 3 lion , eagle, zebra ,tiger 4.Neptune, sun ,mercury , Jupiter 5. Aryabhatta , Moon ,Rohini , Apple

Q7 Define : Hibernation ; Extinct animals ; Xerophytes ; Telescope ; Rotation ; Revolution ; Chemical change ; Solute ; Artificial satellites ; Crop rotation ; Hibernation ; Friction ; force

Soil conservation ; Land breeze ; Humidity ; Decantation ; Craters ; Revolution ; Evaporation

Q.8 State whether the statements are true or false:

1. A child suffering from diarrhoea should be given oral rehydration solution. 2.Garbage should be thrown in the open fields. 3. The planet nearest to the sun is earth. 4. The young one of cow is called calf. 5 Clay is the best soil for growing crops. 6 Soil is found in layers. 7 Roots of trees and grass help to bind the soil. 7 A crow eats plant and not false. 8 Monkey is an arboreal animal. 9 The cat lays eggs as the birds do. 9 Dogs , cats and goats take care of their young ones. 10. Stomata is the green substance in plants. 11 Chlorophyll is necessary for the formation of starch. 12 Salting helps to preserve the food.

Q9 Write the difference between:

1 Physical and chemical change
2 Land breeze and sea breeze
3 Carbohydrates and proteins
4 Herbivores and Carnivores
5 Soil erosion and soil conservation
6 Planet and Satellite
7 Terrestrial plants and aquatic plants
8 Temporary and permanent teeth
9.Star and planet
10 Aerial animals and aquatic animals
11 Freezing and boiling
12 Rotation and revolution
13 Afforestation and Deforestation
14 communicable and non communicable diseases

Q10 Draw colour and label the following diagrams:

1 The layers of the earth 2 The solar system 3 Life cycle of butterfly 4 Photosynthesis process 5.Structure of an egg 6 Human digestive system.

Q11 Match the columns:

A	B
1 Pedestrians	a unwanted sound
2 water evaporate faster	b transparent
3 planet with ring	c prevents flies
4 Glass is	d zebra crossing
5 food gives us	e saturn
6 dehydration	f when it is windy
7 kerosene oil	g energy to work
8 noise	h loss of water

Q12 Give one word for :

1 A plant that eat insects .
2 A hot ball of games.
3 .Grinding teeth
4 Tearing teeth
5 A planet having life.
6 Desert plants
7 Organism that give birth to babies
8 A long winter sleep of animals
9 Green pigment in leaves
10 Festival of tree plantation
11 Grass eating animals
12 Flesh eating animals
13 Immediate help given to the injured person
14 A force that oppose motion.
15 Push or a pull
16 Outer part of the earth
17 Capacity to do work
18 Machine that makes our work easier
19.plants that floats on water.
20. An animal that lives in water and land