"Thurstan College, being unshaken amidst the COVID 19 challenges"

Series of Supportive Activities



Grade 7 - Science

THURSTAN COLLEGE
COLOMBO 07

Thurstan College, being unshaken amidst the COVID 19 challenges

Series of Supportive Activities

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Grade 07

Unit 4

Functions of water

- 01. Fish get oxygen for respiration by
- i. Gills and oxygen dissolved in water
- ii. Lungs and oxygen dissolved in water
- iii. Gills and oxygen dissolved in water
- iv. Lungs and oxygen dissolved in water
- 02. Which property of water is used to cool the engine of a vehicle?
- i. As a coolant
- ii. As a medium
- iii. As a solvent
- iv. As a conductor
- 03. Melting point of water is,
- 1.0°C
- 2. -10 °C
- 3. 100 °C
- 4. -273 °C

- 04. The juice in sugar cane contains
- i. Sucrose
- ii. Glucose
- iii. Fructose
- iv. Starch
- 05. A substance that dissolves in water is
- i. Paraffin fax
- ii. Coconut oil
- iii. Camphor balls
- iv. Vinegar
- 06. A substance that dissolves in water is
- i. Paraffin fax
- ii. Coconut oil
- iii. Camphor balls
- iv. Vinegar

- 07. Water considered as good solvent. Because
- i. Most substances do not dissolve in water
- ii. Most substances dissolve in water
- iii. Oxygen dissolves in water
- iv. Some substances dissolve in water

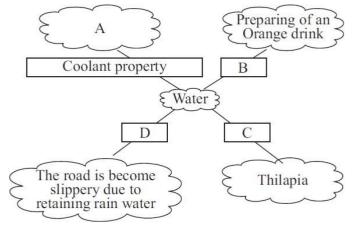
Part 2

Answer all questions

- **01**. Fill in the blanks by using suitable words
- i. Heat is generated in our body during theprocesses.
- ii. Water is the medium of life for......Organisms.
- iiican be produced by removing some amount of water from sweet toddy.
- iv. Water is used as a coolant in to avoid overheating of machines while operating.
- v. Vitamins, minerals, medicine are transported through our body by using a medium of water in

02.

The following is a chart made by a group of students in grade 7 for a game related with properties of water.



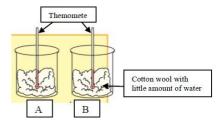
- **★** Entertainment
- **★** Solvent property
- ★ Lubricant property
- ★ Media for transports
- **★** Sanitation
- ★ Use as a living medium
- ★ Apply water to the radiator of vehicles

(1) Write suitable words for A, B, C, D places using the above statements.

(2) Which property of water causes the salty taste of sea water.
(3) Write another instance we use the above property of water at home.
(4) Name the salt that dissolved most in the sea water?
(5) Draw the diagram of an activity which is done for separating salt from a salt solutionusing the below things and name it.
(a lid of a tin, tripod, spirit lamp or bunsen burner, Salt solution, a box of matches)

03.

A. Answer the given questions by using given diagram

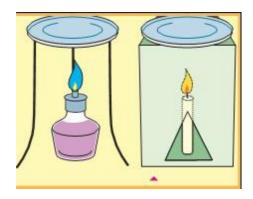


- Get two beakers of similar size. Put same amount of cotton wool into both beakers.
- Put a little amount of water on to cotton wool in one beaker and keep for a few minutes.
- Get the readings of the thermometers.
- i. What will be the observation of the above activity?
- ii. What is the conclusion of it?
- iii. Why do buffaloes wallow in water on hot days?
- B. i. Write 4 instances where water is important as a solvent.

ii State 2 difficulties that you face when there is no water supply in your kitchen

iii .Write a method of supplying nutrients for hydroponic cultivation

iv.Write down an activity that you can do to show the separation of salt from a salt solution by using following set up





Grade 7 unit 05 Acids and bases

- 01. What is the colour of pH papers found in the laboratory?
- i. Yellow
- ii. Blue
- iii. Violet
- iv. Red
- 02. base found in houses,
- i. Bilimbi juice
- ii. Sugar solution
- iii. Lime water
- iv. Lime juice
- 03. The picture show
- i. An acid
- ii. A base
- iii. A neutral substanc
- iv. Non of the above



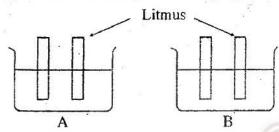


- 04. Colours relevant to numbers 8,9,10,11 and 12 of the pH scale are given by
- i. Bases
- ii. Acids
- iii. Neutral substances
- iv. Acids and Neutral substances
- 05. The pH value of solution X is 10. X might be,
- i. lime juice
- ii. water
- iii. lime water
- iv. salt solution
- 06. A neutral substance is
- i. Tap water
- ii. Soap solution
- iii. Milk of magnesia tablets
- iv. Alcohol

- 07. An indicator which can be obtained from the natural environment
- i. Girithilla flower juice
- ii. Salt solution
- iii. Lime juice
- 08. Which of the following solution would turn yellow due to methyl orange?
- i. Sulphuric acid
- ii. Nitric acid
- iii. Salt solution
- iv. SodiumHydroxid

09.

Two pieces of blue and red litmus were put into two liquids in the laboratory. According to this, your conclusion is,



- (1) A is an acid. B is a base.
- (2) A is a base. B is an acid.
- (3) A is an acid. B is an acid.
- (4) A is a base. B is a base.

blue litmus turns to red red litmus does not change the colour.

red litmus turns to blue blue litmus does not change the colour

- 10. Which of the following will give a pink colour when phenolphthalein is added?
- i. Lime water
- ii. Vinegar
- iii. Sugar solution
- iv.Lime juice
- 11. The following indicator (red litmus) gives a colour change with
- i. Vinegar
- ii. Soap water
- iii. Lime juice
- iv. Goraka juice



12. What is the group of bases that can be found at home?

i.Lime juice, Salt

ii.Bilin, Vineger

iii.Soap, Lime water

13.Salt, Goraka (gambodge) An acidic substance that can be observed at home is

i. Soap ii. Tomatoes iii. Toothpaste iv.Lime water

Part II

Answer all questions

01.Match the A with B

A	В
Help to many animals to protect from predators	a. Back bone
A suitable substance that can be applied to relief the pain due to sting of a bee	b. Evaporation
An essential material to create a simple cell	c. Camouflage
A criterion that can be used to categorize fish and crab	d. Sulphuric acid
The process that uses in extracting salt from sea water	e. Baking soda

02. Fill in the blanks
i. Sodiumis used as a treatment for bee sting
ii. Kerosene do not show the properties of acids or They are called substances.
iii. Phenolphthalein is colour powder
iv. Glucose solution is Substance
v. If an acid touched accidently wash yourself well with
vi. Dilute calcium hydroxide solution is a
vii. Arecanut boiled water is aIndicator.
viii. Soap like slimy nature nature is a property of

03. Fill the following table with the color of litmus papers

Solution Tested	Colour with red litmus	Colour with blue litmus
Lime water	Blue	
Pure water		Blue
Sugar solution		
Vineger		
Sodium Chloride solution		
Biling juice		

04.i. Explain the following statements scientifically	
a. Most fruits are sour in taste	
b. Lime is added to soil to reduce acidity	
c. Milk of magnesia tablets are taken for gastritis.	
ii.Name 2 indicators that can be used to identify acid	
iii.Name 2 acids and that are frequently used	
in laboratory.	
iv.Name 2 bases that are frequently used in	
laboratory.	



Grade 07

Unit: 06

Animal Diversity

- 1. Select the invertebrate from these animals
- i. Shark
- ii. Magpie
- iii.Crab
- iv. Elephant

2.



Out of the above animals, group of invertebrate animals is,

- (1) caterpillar, worm, snail (2) gecko, fish, frog
- (3) fish, warm, butterfly
- (4) snail, worm, gecko

- 3. This is not a group of vertebrates
- i.Fish
- ii.Mammals
- iii.Amphibians
- iv.Cnidarian
- 4. Adaptations of organisms to environment are useful for them to fulfil their
- i.Food
- ii.Shelter
- iii.Protection
- iv.All above
- 5. An animal having a streamline body shaped is
- i.Squirrel
- ii.Thilapiya
- iii.Man
- iv.Spider

- 6. Select the answer which includes only invertebrates
- i. Sea gull, Butterfly, Fish
- ii. Turtle, Tortoise, Frog
- iii. Frog , Sea gull, Star fish
- iv. Frog, Snail, Star fish
- 7. Select the groups of animals having only mammals
- i. Lion, Bat, Dolphin
- ii. Man, Squirrel, Turtle
- iii. Eagle, Salamander, Cobra
- iv. Deer, Turtle, Rat
- 8. This is not an organism who shows camouflage
- i.Turtle
- ii.Moth
- iii.Grasshopper
- iv.Whip snake
- 9. The advantage given to the kingfisher by the streamline shape it has is,
- i. Catching fish in water made easy
- ii. Ability to overcome air resistance when flying
- iii. Getting a sharp vision
- iv. Be an outstanding animal in the environment
- 10.An animal showing the same colours and patterns of plant leaves is given below. That animal

is

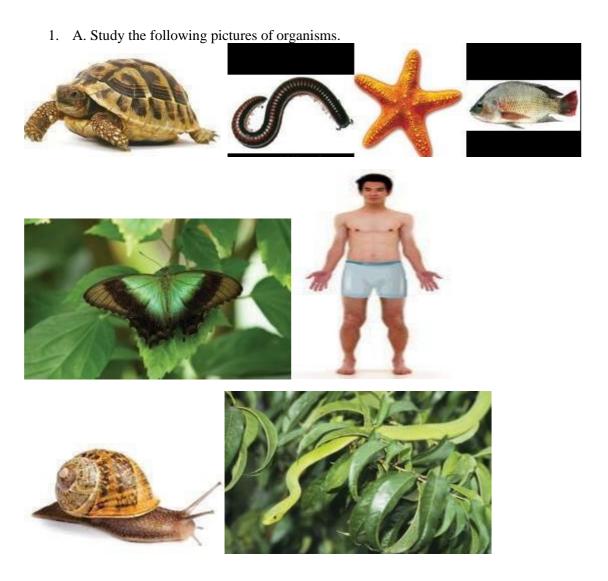
- i.Caterpillar
- ii.Butterfly
- iii.Leaf insect
- iv.Stick insect



- 11. The group of vertebrate that following animal include is,
- i.Fish
- ii.Birds
- iii. Amphibians
- iv.Reptiles



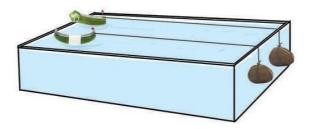
Part 2
Answer all questions



i) Separate above animals according to presence and absence of backbone

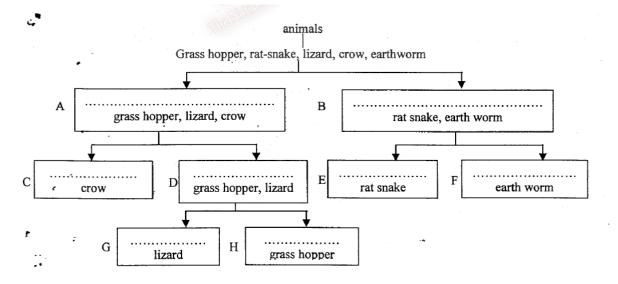
- ii) a. Animals with a backbone are called
 - b. Animals without a backbone are called.....
- iii) How do the following animals are adapted to the environment where they live?

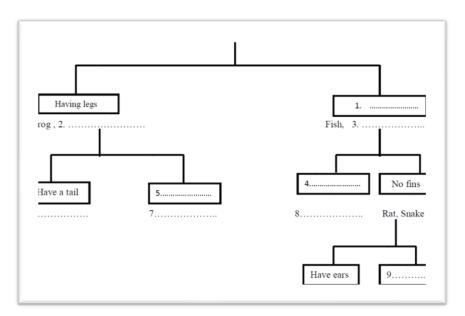
 a. Leopard
 - b. Caterpillar
- iv) What do you mean by camouflage?



- 2.A picture of an activity done by a group of students to find out how shape helps the existence of animals is given above.
- i) Write down the observation of the above activity
- ii) Write the conclusion that can be arrived based on the above observation
- iii) Briefly explain the importance of body shape for fish in locomotion

2. Complete the following dichotomous key





- 3. Complete the following dichotomous key
- i) Write two features of dichotomous key.

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		ving plants as y			us key	
Jak, Bre	ad fruit, Arec	canut, Kathrumi	urunga, Cact	us		
				6		