

## Unit (1)

### (1) Complete the following:-

1. The material in which light can easily transmit through is called .....
2. The change in the direction of light rays when they pass through the separating surface between 2 transparent media is called .....
3. The prism separates sunlight into .....
4. Transparent colored object have the same color of light which .....
5. The opaque colored object seems having the same color of light which.....
6. If the red light strikes a white ball it looks in ..... color.
7. Red light + green light + blue light = .....
8. ...., ..... & ..... are primary color.
9. A magnet poles that always refers to the north direction is called .....
10. The basic idea of the electric generator is the changing of..... into .....
11. When you move a coil between 2 poles of magnet , ..... is generated in the coil.
12. The electric current produced by the electric generator increases when ..... or ..... get increased.
13. The apparatus that converts kinetic energy into electric energy is called the .....

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14. Like poles ..... whereas dislike poles .....
15. Electromagnet consists of ....., ..... & .....
16. The magnetic force is most powerful at the ..... of the magnet.
17. The ..... contains a small light magnet moves freely around a fixed axis.

## **(2) Put ( √ ) or ( × ) & correct the wrong word:-**

1. Light is a form of energy. ( )
2. A rainbow is formed when the sun separates the moonlight. ( )
3. Light transmits in straight lines. ( )
4. Object shadow is formed because light travels in curved lines. ( )
5. Transparent objects have the same color of light that doesn't travel through. ( )
6. Colored opaque object have the same color of light which the object reflects. ( )
7. The moon seems luminous because it reflects the sunlight. ( )
8. The picture formed in the mirror is inverted. ( )
9. When the white light strikes a red rose, it reflect the white color. ( )
10. An object seems white since it reflects all the color which the white light is made up of. ( )
11. If you look at yellow banana through a green glass sheet, it seems black. ( )
12. Yellow, Purple & light blue are primary light colors. ( )







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13. The dynamo is fixed in the bicycle touching the bicycle .....

- a) seat                                      b) pedal                                      c) tire

## (4) Give reason for:

1- Glass is a transparent material.

.....

2- Carton paper is an opaque material.

.....

3. Rainbow can be seen after heavy rain falling.

.....

4- Green color is considered primary light color.

.....

5-Cyan and magenta are considered secondary light colors

.....

6. White light can be separated.

.....

7- pencil seems broken when it placed in a cup of water.

.....

8- when you look at mirror you see your image

.....

9. Some materials are magnetic.

.....

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10. Dynamo can change mechanical energy into electric one.

.....

## (5) Write the scientific term:

1. Darkened area formed behind an object once light falls on it.

(.....)

2. The light energy that can be seen.

(.....)

3. The material which you can see object clearly behind in full details.

(.....)

4. The seven color of light which sunlight is made up of. (.....)

5. The color we get by mixing two colors of the primary color.

(.....)

6. Reflection of light on the surface of white paper in different direction.

(.....)

7. The material that don't allow light to transmits through & objects can't be seen behind.

(.....)

8. A material gets attracted to the magnet.

(.....)

9. The space around a magnet in which the magnetic force appears.

(.....)

10. The area of the magnet where the magnetic force is most powerful.

(.....)

11. A tool that is used for locating the main geographic direction.

(.....)

12. The materials that don't get attracted to the magnet. (.....)



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## (6) What is the difference between:

1. The transparent and opaque material.
2. The primary and secondary colors.
3. The magnetic and non – magnetic materials.

## (7) Mention the function of:

1. Electromagnet
2. Compass
3. Prism



## Unit (2)

### (1) Complete the following:-

1. .... is considered as a general solvent, because of its ability to dissolve most materials.
2. Mixing a small amount of mud with water forms ..... that can be separated by .....
3. increasing the quantity of solvent ..... the solubility time in a certain amount of solute.
4. Increasing ..... reduces the solubility time.
5. The solution is a type of .....
6. Increasing temperature ..... the solubility time.

### (2) Put ( √ ) or ( × ) & correct the wrong word:-

1. A separating funnel is used to separate heterogeneous liquid mixture. ( )
2. Filtration process is used to separate mixtures which have deposits. ( )
3. Vegetable salad is considered to be a homogeneous mixture. ( )
4. Evaporation and filtration are ways of mixtures separation. ( )
5. Solubility, filtration and evaporation are ways of mixtures separation. ( )



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6. We use evaporation process in our daily life to separate coffee from water. ( )
7. When water and sugar get mixed up, a heterogeneous mixture is formed. ( )
8. If the amount of solvent decreases, solubility time increases. ( )
9. Solubility speed decreases by shaking and rising the temperature( )
10. The solubility speed of solids increases by grinding. ( )
11. Increasing the amount of solvent decreases the speed of solubility. ( )
12. Mixtures can be separated by the magnetic attraction, filtration and evaporation. ( )
13. The components of mixtures can be separated. ( )

### **(3) Choose the correct answer:**

1. Most mixtures formed by dissolving in liquids are ..... mixtures.
- a) Homogeneous                      b) Heterogeneous  
c) Identical                              d) (b) and (c)
2. From examples of homogeneous liquid mixtures is .....
- a) water and sand                      b) mud and water  
c) water and iron filing                d) salt and water
3. The substance in which solids dissolve is called .....
- a) solubility process                      b) solvent  
c) solute                                      d) sugar



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4. Salty solution is a homogeneous solution.

.....

5. Mud in water is heterogeneous solution.

.....

## **(5) Write the scientific term:**

1. The substance that dissolves in the solvent. (.....)

2. The substance in which the solute dissolves. (.....)

3. A heterogeneous mixture in which some particles of the solute are suspended throughout the solvent. (.....)

4. A process by which the solute dissolves in a solvent leading to the disappearance of the solute. (.....)

5. A liquid mixture in which solute breaks down into most basic particles throughout the solvent. (.....)

## **(6) How can the following mixtures be separated:**

1. Sand solution
2. Paper clips and flour
3. Water and oil solution
4. Chalk and water solution
5. Sugar solution

## **(7) State the solvent and solute in each of:**

1. Sugar solution
2. Salty solution

## **(8) Mention the function of:**

1. Filter paper
2. Separating funnel.



## Unit (3)

### (1) Complete the following:-

1. The interaction between a cat and a rat is considered as an example of ..... relationship.
2. The relationship between fungi and organisms dead bodies is an example of .....
3. Bilharzia worms hurt ..... and are named ..... while the organisms it hurts are called hosts.
4. Fungi are considered as ..... living organisms.
5. Decomposers are considered the ..... of nature.
6. Green plants are ..... organisms.
7. Bilharzia worm is a .....
8. The food relationship in which both organisms benefit from each other is known as .....
9. .... is the balance among the components of the ecosystem.

### (2) Put ( √ ) or ( × ) & correct the wrong word:-

1. Fungi feeding on the dead organisms bodies are called saprophytes. ( )
2. Among the different types of fungi, mushroom is distinguished by its ability to make its food. ( )

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3. Some living organisms can change its color to simulate the color of environment where they live to hide from their enemies. ( )
4. The relation between flaria worm and man is parasitism relationship. ( )
5. Predation is a temporary food relationship between predator and prey. ( )
6. The balance of ecosystem accurs due to interfere of man. ( )

### (3) Choose the correct answer:

1. Bacteria is a .....
- a) producer                      b) parasite                      c) decomposer
2. The process of photosynthesis is done by a ..... Living organism.
- a) producer                      b) decomposer                      c) consumer
3. Bilharzia worms are considered as ..... organisms.
- a) producer                      b) parasitic                      c) decomposer
4. Plants get energy from .....
- a) oxygen                      b) chlorophyll                      c) sunlight
5. An example of decomposer is the .....
- a) fungi                      b) rabbits                      c) plants
6. Green plants are considered as ..... organisms.
- a) decomposer                      b) producer                      c) consumer

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7. ....ejects a black color fluid in the surrounding water when attacked by its enemies.

- a) frog      b) sepia      c) butterfly      d) chameleon

## (4) Give reason for:

1. Tape worm is a parasite.

.....

2. Saprophytes are guards of nature.

.....

3. Predation is a temporary relationship.

.....

4. Parasites may be internal or external.

.....

5. Plants are autotrophic living organisms.

.....

6. Although lion is a carnivorous the plant is the main food for it.

.....

## (5) Write the scientific term:

1. A temporary relationship between two different organisms with a benefit to one and harm to the other.      (.....)

2. A relationship between two organisms one benefit while the other neither benefit nor harmed.      (.....)



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3. The relationship between two organisms that benefit from each other.

(.....)

4. It's any natural area including living organisms and non – living things.

(.....)

## (6) What happens if:

1. Bacteria disappear completely.

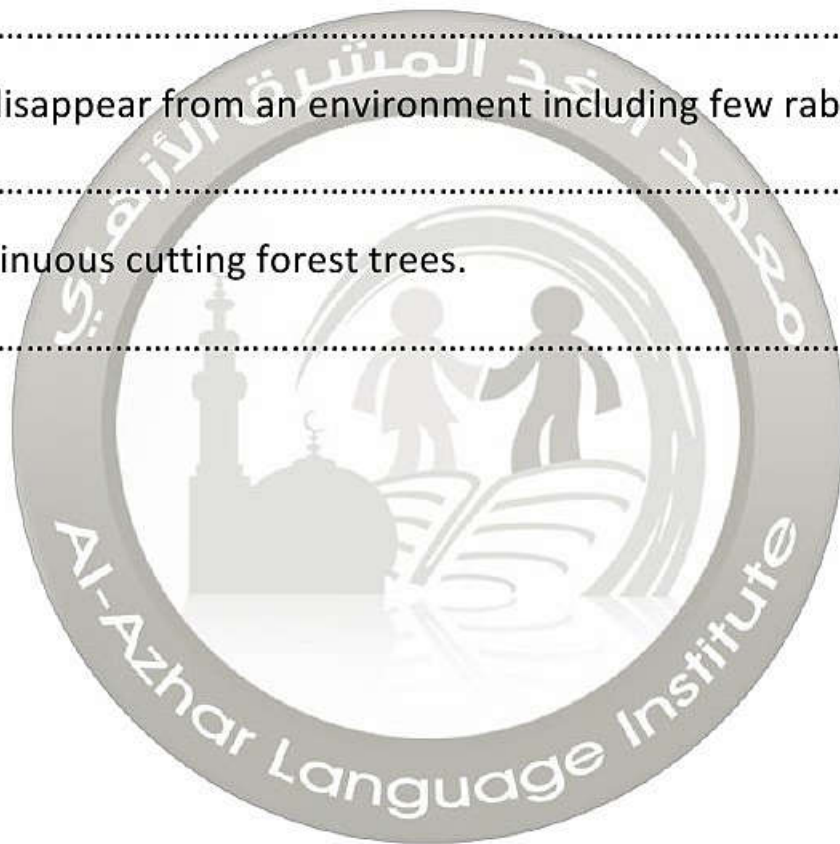
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2. Predators disappear from an environment including few rabbits.

.....

3. If man continuous cutting forest trees.

.....



# Model Answer

## Unit (1)

### 1- Complete the following:-

1. Transparent
2. Light refraction
3. Seven spectrum colors
4. Transmit through it
5. reflected
6. Red
7. White light
8. Red, blue and green
9. north pole
10. Kinetic energy – electric energy
11. Electricity
12. coil turns, motion.
13. Electric generator (dynamo)
14. Repel – attract
15. Copper wire, bar of soft (wrought) iron and battery
16. Two poles
17. Compass

### 2)Put ( ✓ ) or ( ✗ ) & correct the wrong word:-

1. (✓)
2. (✗) the rain drops separate the sunlight
3. (✓)
4. (✗) in straight lines
5. (✗) that transmit
6. (✓)
7. (✓)
8. (✗) up right

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9. (×) it reflects the red color

10. (√)

11. (√)

12. (×) secondary colors

13. (√)

14. (√)

15. (√)

16. (√)

17. (√)

18. (×) (iron or nick / or steel or cobalt)

19. (×) and source of electricity (battery)

20. (√)

21. (√)

22. (√)

23. (×) through a copper coil

### 3) Choose the correct answer:

1. straight

2. primary colors

3. repel

4. north

5. magnetic field

6. two poles



7. compass
8. electro magnet
9. electric generator
10. The mechanical into electric one
11. copper
12. electrical
13. tire

#### **4) Give reason for:**

1. Because it allows most light to pass through it.
2. Because it does not allow light to pass
3. Due to light separation where the rain drops separate sun light.
4. Because impossible to be produced by mixing 2 light colors.
5. Because it can be produced by mixing 2 primary light colors
6. Because it consists of 7 spectrum colors.
- 7-Due to light refraction
- 8-Due to regular reflection of light
9. Because they get attracted to the magnet.
10. Because the movement of the copper coil between 2 poles of magnet generates electricity.

#### **5)Write the scientific term:**

- |                     |                         |
|---------------------|-------------------------|
| 1. shadow           | 2. Visible spectrum     |
| 3. transparent      | 4. 7 spectrum colors    |
| 5. Secondary colors | 6. Irregular reflection |
| 7. Opaque materials | 8. Magnetic materials   |

9. Magnetic field

10. 2 Magnetic poles

11. Compass

12. Non- Magnetic material

## **(6) What is the difference between:**

1. Transparent material: materials that allow light to pass through & object behind can be seen clearly.

Ex:- Water – air – glass.

\* Opaque is materials that don't allow light to pass through it & object behind can't be seen.

Ex:- carton paper.

2. Primary colors are colors which can't be produced by mixing 2 other color as [red, green & blue].

\* Secondary colors are light colors which can be produced by mixing 2 of primary colors as cyan, yellow, magenta.

3. Magnetic materials get attracted to the magnet

Ex:- iron – nickel – cobalt – steel

\* non-magnetic material: don't get attract to the magnet.

Ex:- copper – aluminium – paper – wood.

## **7) Mention the function of:**

1. Used in mixer, electric bell, disc drives, television and cranes to change electric energy to magnetic energy.

2. To determine the 4 main geographical directions.

3. Separate the white light into 7 spectrum colors

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## Unit (2)

### 1) Complete:-

1. Water
2. Suspension – filtration
3. Decreases
4. Stirring or temperature or surface area
5. Mixture
6. Decreases

### 2) Put (√) or (×) & correct the wrong word:-

1. (√)
2. (√)
3. (×) heterogeneous
4. (√)
5. (×) magnetic attraction - filtration and evaporation
6. (×) filtration
7. (×) Homogeneous
8. (√)
9. (×) increases
10. (√)
11. (×) increases the speed
12. (√)
13. (√)

### 3) Choose the correct answer:

1. Homogeneous
2. Salt and water



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3. solvent
4. water
5. solute
6. solubility
7. solution
8. color of solvent

## **4) Give reason for:**

1. Because Mineral water consists of more than one type of particles while distilled water is consists of one type of identical particles.
2. Because it consists of more than one type of particles [solute + solvent]
3. Because as the surface area increases, solubility time decreases.
4. Because we can't distinguish (see) its components.
5. Because we can distinguish (see) its components.

## **5) Write the scientific term:**

1. Solute
- 2 solvent
3. Suspended solution (suspension)
4. solubility process
5. Solution

## **6) How can the following mixtures be separated:**

1. by Filtration
2. By Magnetic attraction
3. Separating funnel
4. Filtration
5. Evaporation

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## 7) State the solvent and solute in each of:

1. Sugar → solute & water → solvent
2. Salt → solute & water → solvent

## 8) Mention the function of:

1. Separate the insoluble substances in a liquid
2. Separate the mixture of oil and water.



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## Unit (3)

### 1) Complete:-

1. Predation
2. Saprophytism
3. Human(internally) – parasite
4. Saprophytic organisms
5. Guard
6. Autotrophic
7. Internal parasite
8. Mutualism
9. Environmental balance

### 2) Put (✓) or (×):-

1. (✓)
2. (✓)
3. (✓)
4. (✓)
5. (✓)
6. (×) imbalance

### 3) Choose:-

1. decomposer
2. producer
3. parasitic
4. sunlight
5. fungi
6. producer
7. sepia





**4) Give reason for:**

1. Because it feeds by sharing the host's food and it harms him.
2. Because they help in getting rid of dead bodies and recycling of chemical elements
3. Because it ends up by devouring the prey or part of it.
4. Because they may live in the host's body sharing it's digested food or outside his body by sucking his blood.
5. Because they make their own food by photosynthesis process.
6. Because they depend on plants indirectly in feeding.

**5) Write the scientific term:**

1. Predation
2. Commensalism
3. mutualism
4. Ecosystem

**6) What happens if:**

1. It causes environmental imbalance.
2. It causes environmental imbalance.
3. It causes environmental imbalance.

*good luck*