



# **Multiple choice questions**

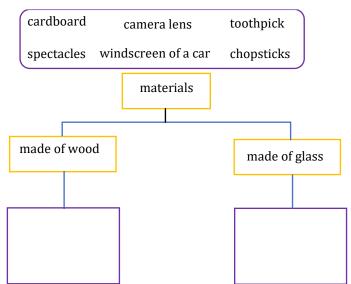
- **1.** Which of the following is not an example of material?
  - (1) Air

(2) Milk

(3) Table

- (4) Feeling
- 2. Which of the following is not made up of same type of material?
  - (1) Wire
- (2) Coin
- (3) Pin
- (4) Cotton
- 3. Which of the following material has different property from others?
  - (1) Glass
- (2) Spoon
- (3) Bowl
- (4) Cloth

- **4.** Which of the following is a gaseous substance?
  - (1) Glass
- (2) Water vapour
- (3) Milk
- (4) Iron
- **5.** In the box given below, some substances have been listed. Classify them according to the materials they are made of.



### **True or False**

- **6.** Steam is an example of gas.
- **7.** Air is a pure substance.
- **8.** Soil is not a material.
- **9.** Different materials have different kind of properties.



### Fill in the blanks

- **10.** Classification of ..... makes their study easy and systematic.
- **11.** Find the odd one out.
  - (i) Appearance, solubility, transparency, chemical reactivity
  - (ii) Iron, Aluminium, copper, wood
  - (iii) Juhi, champa, rose, carrot
  - (iv) Cup, Juice, book, bottle.
  - (v) Wood, sponge, diamond, glass
- **12.** Leaf : Float :: coin : \_\_\_\_\_

# **Subjective Questions**

- **13.** Define classification.
- **14.** Define materials.
- **15.** Group the objects given below based on the shape.

Ball, Orange, Bangles, Samosa, Kite.



### **Answer key**

Question	1	2	3	4
Answer	4	4	4	2

# 1. Option (4)

Milk, air and table have mass and occupy space so these are matters. Feeling is not a matter.

# 2. **Option (4)**

Wire, pin and coins are made up of metals. Cotton is a different material.

# 3. Option (4)

Glass, spoon and bowl are used for eating purpose. Cloth is a material that is used for making dresses or other purpose.

### 4. **Option (2)**

Water vapour is a gaseous substance. Glass and iron are solid material. Milk is liquid.

**5.** Made of wood  $\rightarrow$  chopsticks, toothpick, cardboard

Made of glass  $\rightarrow$  camera lens, wind screen of car, spectacles

#### 6. True

Steam is a gaseous state of water so it is an example of gas.

### 7. False

Air is not a pure substance.

#### 8. False

Soil is a material.

#### 9. True

Different materials have different kind of properties. For example- gold is yellow in color, Copper has reddish brown color, Iron is hard substance etc.

### 10. materials

Classification of materials makes their study easy and systematic.

- **11.** (i) chemical reactivity
- (ii) wood

(iii) carrot

(iv) juice

(v) sponge

## 12. sink

Coin will sink in water because it is heavy than water.

- **13.** The act of dividing things into category, according to some common relations, called classification.
- **14.** All objects are made of some substances called materials.

## 15. Round shape

Triangular shape

Ball, Orange, Bangles

Samosa, Kite





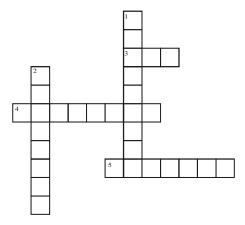
# **Multiple choice questions**

- **1.** Which of the following is a softest substance?
  - (1) Cotton
- (2) Foam
- (3) Talc
- (4) Wax

- **2.** An example of a lustrous material is-
  - (1) oxygen
- (2) nitrogen
- (3) wood
- (4) silver

- **3.** Which of the following is a hardest material?
  - (1) Salt
- (2) Iron
- (3) Diamond
- (4) Stone
- **4.** Pick the odd one out on the basis of appearance.
  - (1) Wood
- (2) Gold
- (3) Plastic
- (4) Chalk

**5.** Puzzle



### Down

- 1. A metamorphic rock from which talc is obtained
- 2. Largest diamond found in Africa

### Across

- 3. Mixture of gases
- 4. All materials are made up of \_\_\_\_\_.
- 5. A liquid lustrous metal

### **True or False**

- **6.** All gases are lustrous.
- **7.** Glass is a hard substance.
- **8.** The largest diamond is Cullinan.



## Fill in the blanks

- **9.** Copper have a ...... lustre on its surface.
- **10.** Special kind of shine present on natural materials or shine appears when they are freshly cut is called as \_\_\_\_\_.
- **11.** All \_\_\_\_\_ are non-lustrous.

# **Subjective Questions**

- **12.** Why are diamonds used to cut glass?
- **13.** Name the rock from which talc is obtained.
- **14.** How is hardness of a material determined?
- **15.** Define lustrous material.



### **Answer key**

Question	1	2	3	4
Answer	3	4	3	2

# 1. **Option (3)**

Talc obtained from soapstone is the softest substance.

# 2. Option (4)

Silver is a lustrous material. Nitrogen, oxygen and wood gases are non-lustrous.

### 3. **Option (3)**

Diamond is the hardest substance naturally occurring substance.

### 4. Option (2)

Gold is a lustrous material. Chalk, plastic and wood is non-lustrous.

# 5. Down Across

1. SOAPSTONE 3. AIR

2. CULLINAN 4. ELEMENTS

5. MERCURY

### 6. False

All gases are non-lustrous.

#### 7. True

Glass is a hard substance.

#### 8. True

The largest diamond is Cullinan, found in Africa.

### 9. reddish brown

Copper has a reddish brown lustre on its surface.

## 10. lustre

Special kind of shine present on natural materials or shine appears when they are freshly cut is called as lustre.

#### 11. gases

All gases are non-lustrous.

- **12.** Glass is a hard substance, diamonds can be used to scratch glass because diamond is hardest substance.
- **13.** Metamorphic rock from which talc is obtained.
- When the surfaces of two different materials are rubbed against each other, then the surface which scratches is said to be hard and the property is called hardness of the material. Conversely, the surface which gets scratched is said to be soft as compared to the scratching surface.
- **15.** The materials which have natural shine on their surface or the shine appears when they are freshly cut or sand papered are called lustrous materials.





# **Multiple choice questions**

- **1.** Which of the following substance will not dissolve in water?
  - (1) Salt
- (2) Sugar
- (3) Glass powder
- (4) Washing soda
- **2.** Which of the following substance is soluble in water?
  - (1) Sand
- (2) Salt
- (3) Chalk powder
- (4) Sawdust
- **3.** Which of the following substance is insoluble in water?
  - (1) Salt
- (2) Copper sulphate (3) Sugar
- (4) Iron filling

- **4.** An example of miscible liquids
  - (1) vinegar and oil

(2) lemon juice and water

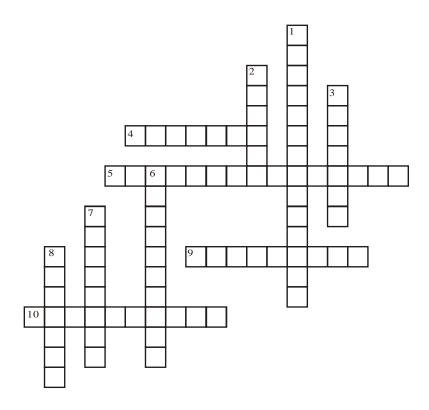
- (3) coconut oil and water
- (4) mercury and water
- **5.** An example of immiscible liquids-
  - (1) vinegar and water

(2) water and milk

(3) alcohol and water

(4) kerosene and water

6. Puzzle





#### Across

- 4. All materials are further made up of simpler materials which is known as
- 5. Liquids which dissolve in water
- 9. All objects are made of substances which is known as
- 10. Liquids which do not dissolve in water

#### Down

- 1. Act of dividing things into category according to some common relation or affinities.
- 2. special kind of shine present on natural materials.
- 3. A liquid metal which is lustrous
- 6. A property of substance due to which it dissolve in water.
- 7. A physical form of carbon which is lustrous
- 8. The hardest naturally occurring substance which is made of carbon.

#### **True or False**

- **7.** Coffee is soluble in water.
- **8.** Metals are soluble in water.
- **9.** Mercury is soluble in water.

#### Fill in the blanks

**10.** The liquids which dissolve in water are called\_\_\_\_\_.

### **Subjective Questions**

- **11.** (a) Name a form of carbon which is lustrous.
  - (b) Name the largest diamond.
  - (c) Give name of a liquid in which coconut oil is miscible.
- **12.** Differentiate between miscible and immiscible liquids.
- **13.** Give example of two insoluble substances in water.
- **14.** Why water is called universal solvent?
- **15.** What is the meaning of the aqueous?



### **Answer key**

Question	1	2	3	4	5
Answer	3	2	4	2	4

# 1. **Option (3)**

Salt, sugar and washing soda are soluble in water. Glass powder is insoluble in water.

# 2. Option (2)

Salt is soluble in water.

# 3. **Option (4)**

Iron filling do not dissolves in water. So it is insoluble in water.

# 4. Option (2)

Lemon juice and water mix with each other. So, these are miscible liquids.

# 5. Option (4)

Kerosene oil and water are immiscible liquids.

6.	Across	Down
	4. ELEMENT	1. CLASSIFICATION
	5. MISCIBLE LIQUIDS	2. LUSTRE
	9. MATERIALS	3. MERCURY
	10. IMMISCIBLE	6. SOLUBILITY
		7. GRAPHITE
		8. DIAMOND

### 7. True

Coffee is a soluble substance in water.

#### 8. False

Metals are insoluble in water.

#### 9. False

Mercury is not soluble in water.

### 10. Miscible liquids

The liquids which dissolve in water are called miscible liquids.

### **11.** (a) Graphite

- (b) Cullinan
- (c) Kerosene
- **12.** The liquids which dissolve in water are called miscible liquids.

The liquids which do not dissolve in water are called immiscible liquids.

- **13.** Sand, Chalk are insoluble in water.
- **14.** Most of the substance are soluble in water. That's why water is called universal solvent.
- **15.** Aqueous means excess of water. It is generally more than what is actually needed.





	Multiple choic	e questions				
1.	Find the substa	nce that is heavier than	water.			
	(1) Alcohol	(2) Plastic ball	(3) Chalk powder	(4) Coconut oil		
2.	A substance than water floats on it.					
	(1) lighter	(2) heavier	(3) miscible	(4) insoluble		
3.	Which of the fol	lowing substance will f	loat on the water?			
	(1) Petrol	(2) Leaf	(3) Ice cube	(4) All of the above		
4.	Which of the fol	lowing objects will sink	in water?			
	(1) Key, leaf	(2) Coin, wood	(3) Coin, leaf	(4) Key, coin		
	<b>True or False</b>					
5.	Chalk powder fl	oats on the surface of w	vater.			
6.	The substances	which are heavier than	water sink in it.			
	Fill in the blan	ks				
7.	Coconut oil and	kerosene oilon	the surface of water.			
8.	Fizzy drinks co	ntaindissolved in	n water.			
9.	Plastic ball : Flo	at :: Stone :				
<b>10</b> .	Leaf : Float :: co	in:				
	Subjective Que	estions				
11.	Which of the fol	lowing materials sink ii	n water ?			
	Stone, wax, woo	od, metal coin, ice				
<b>12</b> .	What is floatati	on? Explain with examp	le.			
<b>13</b> .	Which principle	e is related to floating ar	nd sinking?			
<b>14</b> .	Why oil floats in	ı gravy?				
<b>15</b> .	Group the object	cts below based on the f	loating and sinking in v	water.		
	Key, Coin, Leaf,	Plastic ball, Screw, Ice.				



# **Answer key**

Question	1	2	3	4
Answer	3	1	4	4

# 1. **Option (3)**

Chalk powder is heavier than water so it will sink in it.

# 2. Option (1)

A substance lighter than water floats on it.

# 3. Option (4)

Petrol, leaf and ice cube will float on the surface of water.

# 4. Option (4)

Key and coin are heavier than water, so they will sink in water.

### 5. False

Chalk powder is heavier than water so, it will sink in water.

#### 6. True

The substances which are heavier than water will sink in it.

### 7. Floats

Coconut oil and kerosene oil floats on the surface of water.

### 8. Carbon dioxide

Fizzy drinks contain carbon dioxide dissolved in water.

- **9.** Plastic ball : Float :: Stone : Sink
- **10.** Leaf: Float:: coin: Sink
- **11.** Stone, Metal coin will sink in water.
- **12.** The act of floating is known as floatation. Leaf, boat, wood are float on water because they are light in weight.
- **13.** The principle of floatation and sinking is related to heaviness and lightness of a material. The material is heavier than water will sink in water whereas the material is lighter than water will float in water.
- **14.** Oil is lighter than gravy or other constituents so it will float on gravy.

### **15.** Floats on water Sink in water

Leaf Key
Ice Coin
Plastic ball Screw





### **Multiple choice questions**

- **1.** Shopkeepers usually prefer to keep items in
  - (1) translucent glass container
- (2) opaque plastic container

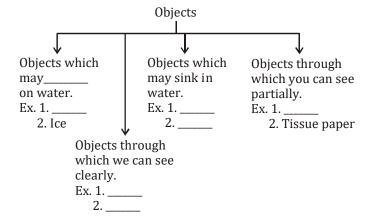
(3) steel container

- (4) transparent glass container
- **2.** An example of an opaque material is
  - (1) water
- (2) butter paper
- (3) glass
- (4) steel

- **3.** An example of a translucent material is
  - (1) Iron
- (2) frosted glass
- (3) kerosene
- (4) stone

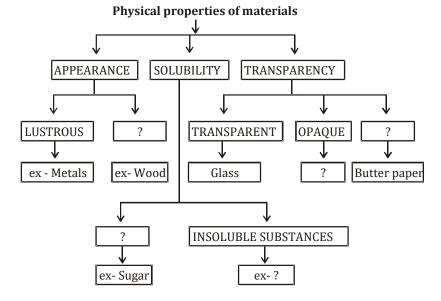
- **4.** An example of a transparent material is
  - (1) metal
- (2) ground glass
- (3) air
- (4) paper

# **Complete the chart**



6.

5.



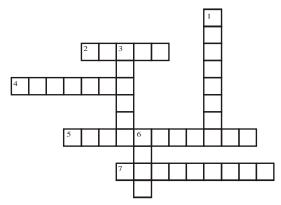


### Match the column

7.

Column-I		Column-II		
(A)	Transparent solid	(p)	Alcohol	
	material			
(B)	Translucent solid	(q)	Glass	
	material			
(C)	Miscible in water	(r)	Oil	
(D)	Immiscible in water	(s)	Paper (few drop of	
			oil spreaded on it)	

## 8. Puzzle



#### Across

- 2. Plastic ball will \_\_\_\_ on water.
- 4. A property of material through which you cannot see.
- 5. All gases are \_\_\_\_\_ in nature.
- 7. Water is a \_\_\_\_ solvent.

# Down

- 1. Vinegar and water are \_\_\_\_ liquids.
- 3. Gas which is quite soluble in water.
- 6. Substance heavier than water \_\_\_\_\_in it.

#### **True or False**

- **9.** Oxygen is an example of translucent material.
- **10.** Certain kind of plastic are transparent material.
- **11.** Tissue paper, ground glass, frosted glass are examples of transparent materials.
- **12.** Property of material through which you can see is called opacity.

### Fill in the blanks

- **13.** Materials through which you can see are called \_\_\_\_\_.
- **14.** Oxygen: Transparent:: Paper: \_\_\_\_\_

## **Subjective question**

**15.** What is opacity?



## **Answer key**

Question	1	2	3	4
Answer	4	4	2	3

# 1. Option (4)

Shopkeepers usually prefer to keep items in transparent glass container. So buyer can easily see items.

# 2. Option (4)

Steel is an example of opaque material.

# 3. **Option (2)**

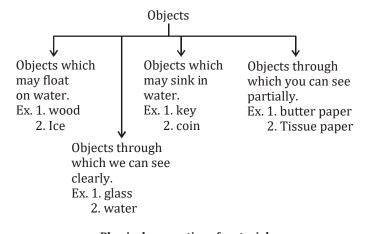
Frosted glass is a translucent material.

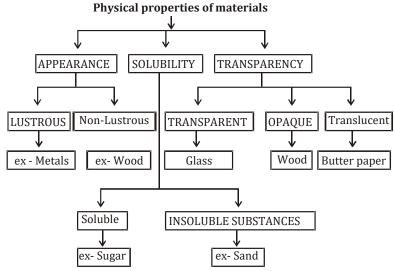
# 4. Option (3)

Air is transparent. Generally, all gases are transparent.

**5**.

6.





# **7.** A - q; B - s; C - p; D - r



8. Across Down

2. Float 1. Miscible

4. Opacity 3. Oxygen

5. Transparent 6. Sink

7. Universal

9. False

Oxygen is transparent gas.

10. True

Certain kind of plastics is transparent. It depends on the plastic and its manufacturing.

11. False

Tissue paper, ground glass, frosted glass are examples of translucent materials.

12. False

Property of material through which you can see is called transparency.

13. Transparent

Materials through which you can see are called transparent.

14. Opaque

Oxygen: Transparent:: Paper: Opaque

**15.** The property of materials through which you cannot series called opacity.