



# CHEMISTRY

## BOOKS - VGS PUBLICATION-BRILLIANT

### MATERIALS AND THINGS

#### Exercise

1. Name any five objects which are made up of only one material.



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2. Name any five objects which are made up of more than two materials.



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3. List five things which we can make using each of the following material : Glass



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4. List five things which we can make using each of the following material : Metal



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5. List five things which we can make using each of the following material : Plastic



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6. List the things that we use in our daily life which are made from wood.



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7. Mary saw a ship travelling on a sea. She knows that iron nail sinks in water. She has many doubts. What are her doubts ? Write them.



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8. Mary, while examining whether a boiled egg sinks or floats, found that it floats. But Vakula made it sink. How is it possible ? Guess and write it.



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9. Drop an egg in a beaker of water. Now drop the same egg in another beaker of water in which excessive salt is added. Write your observation.



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**10.** Do the following activities. Write down your observations. What do you conclude? (a)  
Mix chalk powder in water.



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**11.** Do the following activities. Write down your observations. What do you conclude ? : Place a piece of candle in water.



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**12.** Do the following activities. Write down your observations. What do you conclude ? : Add some oil drops to a beaker of water.



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**13.** Collect different plastic items from your surroundings. Classify them as transparent, opaque and translucent.



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**14.** write different objects made up of wood which we use in our daily life.



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**15.** We know that a ship, even though it is made up of tonnes of iron, floats on water. How do you feel about the scientists who found the scientific principles and efforts in making a ship?



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**16.** We use so many wooden item in our daily life .Is it good to use wood ? What happens by excessive use of it ? What is the reason ? Is there any alternative for this.



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**17.** Give a list of objects which would be broken and which might not be broken when they fall on the floor.



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**18.** With what material is your pen made ?



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**19.** Which objects are made of one material ?



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**20.** Here some materials are given. Name the materials from which each object may possibly

made up of door , towel, bicycle, knife, mirror, shoes, water bottle, pot.



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**21. Which objects are made of one material ?**



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**22. Name any five objects which are made up of more than two materials.**



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**23.** How many materials can be used for making chairs ? List them.



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**24.** Write few properties of materials.



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**25.** Explain the terms Transparent', *Opaque* and 'Translucent' giving with examples.



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**26.** How do you sort materials as solids, liquids and gases ? Write your answer with an example.



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**27.** Can you think of any material other than ice that goes from solid to liquid, liquid to gas (vapour) ?



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**28.** Compare the following properties of solids, liquids and gases. a) Shape b) Volume c) Compressibility d) Diffusion



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**29.** State the differences between solid, liquid and gas.



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**30.** Compare the following properties of solids, liquids and gases. a) Shape b) Volume c) Compressibility d) Diffusion



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**31.** Explain the terms 'soluble' and 'insoluble' with reference to water.



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**32.** How do you explain the terms 'transparent', 'opaque' and 'translucent' by a simple activity.



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**33.** How do you establish the three states of wax by a simple activity?



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**34.** A tomato, brinjal, potato, iron nail, sponge, wood, stone, leaf, piece of chalk and paper are given. Predict which of them sink or float in water. Record your predictions in table.



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**35.** For which objects is your prediction wrong ? Why ?



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**36.** Add a lot of salt to the water in the beaker. Try this same activity with water which is excessively salty. What do you observe ?



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**37.** Add a lot of salt to the water in the beaker.

Try this same activity with water which is excessively salty. Do you get the same result ?

Discuss.



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**38.** Take some water in a wide mouthed bowl.

Put an iron nail in it. What do you observe ?

Put an empty iron tin in that bowl. What do you observe ? Also try to observe whether a

wooden piece floats on water. What happens when a wooden bowl is dipped in water ? what is your conclusion from the above activity?



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**39.** What is the sweet dilemma ? How do you support the argument of the student Razia?



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**40.** How can the same material be used ?



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**41.** How do we decide which material should be used for making an object?



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**42.** What type of material can you use to make a window when you don't want someone to see through it?



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**43.** What type of material can you use to make a window when you want to see through it ?



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**44.** Can you make a cricket ball with mud or glass ?



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**45.** Can you make a chair with glass or mud ? If not why ?



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**46.** Objects that would break

A. Steel glass

B. Steel plate

C. Glass cup

D. wooden spoon

**Answer:**



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**47.** Among the following transparent substance is

A. glass

B. Plastic

C. stone

D. wood



**Answer:**



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**48.** Oily paper is

A. transparent

B. opaque

C. Luminous

D. translucent

**Answer:**



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**49.** What is the value of density of water ?

A. 0.01 g/ml

B. 1 g/ml

C. 10 g/ml

D. 100 g/ml

**Answer:**



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**50.** Among the following opaque substance is

A. Oliy Paper

B. Glass

C. Cardboard

D. Tracing paper

**Answer:**



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**51.** Describe the structure of the common form of ice.

A. milk

B. water

C. petrol

D. Diesel

**Answer:**



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**52.** This floats on water

A. Saw dust

B. salt

C. sugar

D. Haldi.

**Answer:**



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**53.** When water is heated this is produced

These substances allow light

A. ice

B. hot water

C. cool water

D. Water vapour

**Answer:**



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**54.** These substance allow light

A. Opaque

B. Luminous

C. Transparent

D. none

**Answer:**



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**55.** These can't change shape

A. Liquids

B. Solids

C. Gases

D. All of these

**Answer:**



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**56.** These do not have shape

A. Solids



B. gases

C. Both A&B

D. none

**Answer:**



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**57.** Tables are made from

A. wood

B. plastic

C. Steel

D. Clay

**Answer:**



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**58.** An oil thin paper sheet will be

A. opaque

B. transparent

C. translucent

D. none of these

**Answer:**



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**59.** Which of the following is not soluble in water?

A. Chalk powder

B. Salt

C. Sugar

D. Milk

**Answer:**



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**60.** Which objects shines?

A. stone

B. plastic

C. glass

D. Cotton

**Answer:**



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**61. Nutra sugar is**

A. liquid

B. solids

C. Gases

D. All of these

**Answer:**



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**62.** An iron nail sinks in water. While a large ship floats on the surface of water. Give reason.

A. floats

B. Sinks

C. both A&B

D. none

**Answer:**



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**63.** Window is made with

A. wood

B. Glass

C. Both A&B

D. none

**Answer:**



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**64.** Bags are made with

A. plastic

B. leather

C. stone

D. Clay

**Answer:**



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**65.** When, white light shines on an object it may be

A. reflected

B. absorbed

C. both A&B

D. none

**Answer:**



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**66.** Which is not a liquid ?

A. Kerosene

B. Milk

C. Curd

D. Water

**Answer:**



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**67.** Find out the correct statement

A. Potato floats on the water.

B. Stone sinks in the water

C. Wooden piece sinks in the water

D. Iron nail floats on the water

**Answer:**



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**68.** Utensil are made up of

A. metal only

B. Plastic only

C. Glass only

D. either metal (or) plastic (or) glass.

**Answer:**



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**69.** What material is used to make handles of utensils ?

A. Metal

B. plastic

C. glass

D. All of these

**Answer:**



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**70.** Name of things that can be grouped on the basis of their magnetic property are:

A. The cans Iron nails

B. Tin cans, iron nails, Aluminium can

C. Aluminium cans, iron nails, plastic bottle

D. Aluminium cans, iron nails

**Answer:**



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**71.** Name of the things that can be grouped on the basis of softness are:

A. Teddy bear, plastic bottle, pillow, cushion

B. Pillow, paper boat, dry leaves, teddy bear

C. Dry leaves, plastic bottle, cushion, teddy bear

D. Teddy bear, pillow, cushion

**Answer:**



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**72.** Plastic bottle, paper boat and dry leaves are grouped together due to \_\_\_\_\_

A. hardness

B. solubility

C. floatation

D. conduction of heat

**Answer:**



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**73.** Assertion (A) : Wood is a good conductor of heat. Reason (R) : Substances which do not



allow heat to pass through them are called poor conductors of heat.

A. Both A and R are true and R is the correct explanation of A.

B. Both A and R are true but R is not the correct explanation of A.

C. A is true but R is false.

D. A is false but R is true

**Answer:**



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**74.** Assertion (A) : Shopkeepers usually keep biscuits, sweets, etc. in transparent containers of glass or plastic. Reason (R) : Buyers could see through the transparent materials.

A. Both A and R are true and R is the correct explanation of A.

B. Both A and R are true but R is not the correct explanation of A.

C. A is true but R is false.

D. A is false but R is true

**Answer:**



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**75.** Assertion (A) : Rain coats are made up of plastic like material. Reason (R) : Plastic is waterproof.

A. Both A and R are true and R is the correct explanation of A.

B. Both A and R are true but R is not the correct explanation of A.

C. A is true but R is false.

D. A is false but R is true

**Answer:**



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**76.** Statement (i) : Glass, water and air are all transparent materials. Statement (ii) : Saw dust is soluble in water.

A. Statement (i) is correct while statement (ii) is incorrect.

B. Statement (ii) is correct while statement (i) is incorrect.

C. Both statements are correct.

D. Both statements are incorrect.

**Answer:**



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77. Statement (i) : Sugar does not dissolve in water. Statement (ii) : Oil and saw dust sinks in water. Statement (iii) : Oil and wax are miscible with water.

A. Statement (i) and (iii) are incorrect while (ii) is correct.

B. Statement (i) and (ii) are incorrect while statement (iii) is correct.

C. All the statements are correct.

D. All the statements are Incorrect.

**Answer:**



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**78.** Statement (i) : Wood and plastic are heat conductors. Statement (ii) : Air is transparent. Statement (iii) : Sulphur and graphite does not dissolve in water.

A. Statement (i) and (iii) are incorrect while (ii) is correct.

B. Statement (i) and (ii) are incorrect while statement (iii) is correct.

C. All the statements are correct.

D. All the statements are Incorrect.

**Answer:**



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**79.** What material should be used to make the bottle opener ?



A. Rubber

B. Metal

C. Fabric

D. All of these

**Answer:**



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