



# CHEMISTRY

## BOOKS - VGS PUBLICATION-BRILLIANT

### CHANGES AROUND US

#### Exercise

1. Is the change of ice into water, a temporary or permanent change ? Explain.



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2. How do you know that rusting of iron is a change? If a raw egg is boiled in water, what changes do you notice in it ? Explain.



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3. How do you know that rusting of iron is a change? If you are given two eggs, can you determine which one is boiled and which one is not ? Explain.



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4. Name five changes you notice in your surroundings. Classify them as natural or man-made changes.



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5. Choose incorrect statements from the following and rewrite them correctly. The coldness in air during winter is a permanent change,



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6. Choose incorrect statements from the following and rewrite them correctly. Boiled egg is a temporary change.



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7. Choose incorrect statements from the following and rewrite them correctly. There is a cause for every change.



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8. Choose incorrect statements from the following and rewrite them correctly. An electric bulb going on and off is a permanent change.



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9. Choose incorrect statements from the following and rewrite them correctly. There is a change in state when icecream melts.



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**10.** Some changes are listed below, classify them as temporary and permanent. Souring of curd



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**11.** Some changes are listed below, classify them as temporary and permanent. Ripening of oranges



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**12.** Some changes are listed below, classify them as temporary and permanent. The sawing of a piece of wood into two



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**13.** Some changes are listed below, classify them as temporary and permanent. Cooking of food



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**14.** Some changes are listed below, classify them as temporary and permanent. Heating of milk.



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**15.** We use clay to make idols. Can we get back clay from the idol ? What type of change is it ? Explain.



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16. What type of plant is pea ?



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17. What will happen if a decorative colour paper is dipped in water? Predict the possible changes. Verify your prediction by doing experiments and write down the steps of the process?



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**18.** Write various process involved in making ghee from milk. What changes do you find, during this process?



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**19.** Farha wondered "How it could be possible for Nature to bring changes in seasons periodically". Can you add some changes like this ? How will you explain them ?



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**20.** Can you describe what happens when milk is converted into curd or yoghurt from your understanding of proteins?



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**21.** Can you describe what happens when milk is converted into curd or yoghurt from your understanding of proteins?



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**22.** How do you know that milk is changed into curd ? Is there any change in its state ? Is there any change in its volume ? Is there any change in the weight?



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**23.** What changes do you observe with the change of seasons every year?



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**24.** Write a note on indicators and causes for a change.



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**25.** What precautions should you follow before you taste any substance?



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**26.** Find the conditions required for making curd. How do you perform the activity ?.



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**27.** Does the sunrise exactly in the east in all seasons ? What activity you do to find out the direction of the rising sun in different seasons?



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**28.** How do you note the N-S and EW directions at a given place using a magnetic compass?



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**29.** Compare the duration of days in December and May months with the help of the table given below. Answer the following questions. What is the duration of the longest day in December ?



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**30.** Compare the duration of days in December and May months with the help of the table given below. Answer the following questions. What is the duration of the longest day in May ?



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**31.** Compare the duration of days in December and May months with the help of the table



given below. Answer the following questions.

Do December and May belong to the same season? If not, to which seasons do they belong ?



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**32.** Which change is slow and which is fast?



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**33.** Which changes take place naturally?



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**34.** Which change needs initiation / intervention of human beings to occur?



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**35.** Which is a temporary change and which is permanent?



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**36.** Write the indicators and causes for the other changes given below. Change of ice into water and water into ice



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**37.** Write the indicators and causes for the other changes given below. Rusting of iron



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**38.** Write the indicators and causes for the other changes given below. Growth in plants



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**39.** Write the indicators and causes for the other changes given below. Rice to cooked rice



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**40.** Write the indicators and causes for the other changes given below. Melting of icecream



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**41.** Write the indicators and causes for the other changes given below. Boiling an egg in water.



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**42.** Write the indicators and causes for the other changes given below. Electric bulb on and off



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**43.** Write the indicators and causes for the other changes given below. Changes in Atti-Patti plant.



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**44.** Are you able to categorize these changes as slow or fast, natural or man . Made temporary or permanent.



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**45.** Write a note on the changes you observe in the daily life.



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**46.** In a physical change

- A. Change in composition
- B. Energy is released
- C. Energy is absorbed
- D. No change in composition

**Answer:**



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**47.** Rusting of iron is

- A. Chemical change



B. Temporary change

C. Physical change

D. Not a change

**Answer:**



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**48.** Physical change is

A. Permanent

B. Temporary

C. Both A & B

D. None

**Answer:**



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**49.** Melting of wax is

A. Physical change

B. Chemical change

C. Both A & B

D. None

**Answer:**



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**50.** Explosion of fire works is a

A. Physical change

B. Temporary change

C. Chemical change

D. None

**Answer:**



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**51. Coal is a**

A. Common fuel

B. Fossil fuel

C. Liquid fuel

D. Gas

**Answer:**



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**52.** Seasonal changes are

- A. temporary
- B. permanent
- C. man-made
- D. artificial

**Answer:**



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**53.** Formation of seasons are due to

- A. weather change
- B. earth's revolution
- C. earth's rotation
- D. long duration days

**Answer:**



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**54.** Days are shorter in

A. summer

B. rainy

C. winter

D. all of above

**Answer:**



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**55.** This is not indication of changing milk in to curd.

A. taste

B. state

C. volume

D. smell

**Answer:**



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**56.** Rusting of iron is example for

- A. slow change
- B. man-made change
- C. fast change
- D. seasonal change

**Answer:**



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57. Which of the following is not permanent change?

A. boiling of egg

B. rusting of iron

C. cooking of food

D. cold milk to hot milk

**Answer:**



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**58.** In a physical change

- A. Change in composition
- B. Energy is released
- C. Energy is absorbed
- D. No change in composition

**Answer:**



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**59.** Which of the following is reversible change

A. Melting of ice

B. Burning of wood

C. Curding of milk

D. Ripening of fruits

**Answer:**



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**60.** Which of the following is a desirable change ?

A. Floods

B. Landslides

C. Burning of House

D. Burning of cooking gas

**Answer:**



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**61.** Which of the following can be considered as fast change?

- A. Growth of child
- B. Bursting of crackers
- C. Cooking of food
- D. Germination of seed

**Answer:**



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**62.** In general, on heating metals

- A. Contract

B. Expand

C. Can expand or contract

D. None of these

**Answer:**



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**63.** Changes in which heat is liberated are called

A. exothermic changes

B. rapid changes

C. endothermic changes

D. none of these

**Answer:**



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**64.** Which of the following is an example of periodic charge?

A. Landslide



B. A car accident

C. Heartbeat

D. Eruption of volcano

**Answer:**



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**65.** Baking of dough into bread is a kind of change

A. that can be reversed

B. that can't be reversed

C. that can be reversed at hot temperature

D. can't say

**Answer:**



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**66.** Which of the following change is not true for Iodine sublimation ?

A. Change is physical

B. Change is chemical

C. Change is fast

D. Change is reversible

**Answer:**



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**67.** Days are longer in

A. summer

B. rainy

C. winter

D. all of above

**Answer:**



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**68.** Melting of ice-cream is a

A. chemical

B. temporary

C. permanent

D. natural

**Answer:**



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**69.** Around 15th May, the direction of sunrise is very close to the

A. south

B. north

C. east

D. west

**Answer:**



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**70.** Around 20th December, the direction of sunrise is a little south of

A. west

B. north

C. east

D. all of above

**Answer:**



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**71.** When a place gets heat, the pressure gets.

A. increasing

B. decreasing

C. Some times increasing and some time  
decreasing

D. none

**Answer:**



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**72.** The explosion of fire works is an example of  
\_\_\_\_ change

A. Chemical

B. physical

C. Both A.& B



D. None

**Answer:**



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**73.** Curd is \_\_\_\_ form.

A. solid

B. semi-solids

C. liquid

D. Gas

**Answer:**



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**74. Beetle twinkles during \_\_ season**

A. summer

B. winter

C. rainy

D. none

**Answer:**



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**75.** We prefer tea / coffee in \_\_\_\_\_ season

A. winter

B. summer

C. rainy

D. all of above

**Answer:**



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**76.** Days are shorter in the month of

A. May

B. December

C. September

D. All of the above

**Answer:**



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77. Days are longer in the month of

A. May

B. September

C. December

D. All of the above

**Answer:**



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78. We wear \_\_\_\_\_ clothes in winter.

A. Woolen

B. Cotton

C. Both A&B

D. Nylon

**Answer:**



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## 79. Changes in seasons

- A. Temporary
- B. Permanent
- C. Because of humans
- D. Fast actions

**Answer:**



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**80.** Identify the permanent change given below

- A. Melting of the ice-cream
- B. Souring of the curd
- C. Changing in Atti-patti plant
- D. Electric bulb on-off

**Answer:**



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**81.** The appearance of patina on copper statues when these are exposed to moist air is which type of change?

- A. Physical change
- B. Chemical change
- C. Periodic change
- D. Non-periodic change

**Answer:**



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**82.** What is the term used to describe the phase change of a liquid to a gas?

A. Boiling

B. Melting

C. Condensation

D. None of above

**Answer:**



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**83.** What term is used to describe the phase change of a solid to a liquid?

A. Freezing

B. Melting

C. Boiling

D. None of above

**Answer:**



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**84.** What is the term used to describe the phase change as a liquid becomes a solid ?

- A. Evaporation
- B. Condensation
- C. Freezing
- D. None of above

**Answer:**



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**85.** What kind of change takes place after formation of tea?

- A. Physical change
- B. Chemical change
- C. Reversible change
- D. Both A and C

**Answer:**



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**86.** Assertion (A) : The process of conversion of liquid water to its vapours by heating the liquid is called boiling. Reason (R) : The process of conversion of water vapours to liquid by cooling the vapours is called condensation.

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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**87.** Assertion (A) : The formation of rust is a chemical change. Reason (R) : For the formation of rust iron must be exposed to air and water.

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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**88.** Assertion (A) : Explosion of a bomb is an exothermic change. Reason (R) : Large amount



of heat energy is released during explosion of bomb.

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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**89.** Statement (i) : Change of liquid water to steam, on boiling, is an irreversible change.  
Statement (ii) Beating of human heart is a non-periodic change.

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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**90.** Statement (i) : A physical change is one in which the substance under going change is not destroyed and no new substance is formed. Statement (ii) Glowing of an electric bulb is a physical change. Statement (iii) :

When antacid tablet is dropped in water, it fizzes. This is a chemical change.

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

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

C. All statements are correct.

D. All statements are incorrect.

**Answer:**



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**91.** Statement (i) : Turning off of a bulb is a irreversible change .Statement (ii) : When the leaves of the touch-me-not plant is touched, they close. This is an reversible change.Statement (iii) : Ripening of fruits is a reversible change as we can get unripened fruit from ripened one

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

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

C. All statements are correct.

D. All statements are incorrect.

**Answer:**



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**92.** Look at the picture given below. What kind of change is shown in the picture? Choose the correct option.

A. Irreversible change, melted wax cannot be solidified again.

B. Reversible change, melted wax can be solidified again.

C. Periodic change, candle melts after an interval of an hour.

D. Chemical change, melting of candle wax results in change in composition of candle.

**Answer:**



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