



# CHEMISTRY

## BOOKS - PSEB

### PHYSICAL AND CHEMICAL CHANGES

#### Exercise

1. Classify the changes involved in the following processes as physical or chemical changes: photosynthesis



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2. Classify the changes involved in the following processes as physical or chemical changes: Dissolving sugar in water



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3. Classify the changes involved in the following processes as physical or chemical changes: Burning of coal





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4. Classify the changes involved in the following processes as physical or chemical changes: Melting of wax



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5. Classify the changes involved in the following processes as physical or chemical changes: Beating aluminium to make aluminium foil



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6. Classify the changes involved in the following processes as physical or chemical changes: Digestion of food



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7. State whether the following statements are true and false. In case a statement is false, write the corrected statement in your

notebook:- Cutting a log of wood into pieces is a chemical change.



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8. State whether the following statements are true and false. In case a statement is false, write the corrected statement in your notebook:- Formation of manure from leaves is a physical change.



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**9.** State whether the following statements are true and false. In case a statement is false, write the corrected statement in your notebook:- Iron pipes coated with zinc do not get rusted easily.



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**10.** State whether the following statements are true and false. In case a statement is false, write the corrected statement in your

notebook:- Iron and rust are the same substances.



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**11.** State whether the following statements are true and false. In case a statement is false, write the corrected statement in your notebook:- Condensation of steam is not a chemical change.



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12. Fill in the blanks in the following statements:- When carbon dioxide is passed through lime water, it turns milky due to the formation of \_\_\_\_\_.



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13. Fill in the blanks in the following statements:- The chemical name of baking soda is \_\_\_\_\_.



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14. Fill in the blanks in the following statements:- Two methods by which rusting of iron can be prevented are \_\_\_\_\_ and \_\_\_\_\_.



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15. Fill in the blanks in the following statements:- Changes in which only \_\_\_\_\_ properties of a substance change are called physical changes.



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**16.** Fill in the blanks in the following statements:- Changes in which new substances are formed are called \_\_\_\_\_ changes.



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**17.** When baking soda is mixed with lemon juice, bubbles are formed with the evolution of a gas. What type of change is it? Explain.



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**18.** When a candle burns, both physical and chemical changes take place. Identify these changes. Give another example of a familiar process in which both the chemical and physical changes take place.



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**19.** How would you show that setting of curd is a chemical change?



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20. Explain why burning of wood and cutting it into small pieces are considered as two different types of changes.



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21. Describe how crystals of copper sulphate are prepared.



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**22.** Explain how painting of an iron gate prevents it from rusting.



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**23.** Explain why rusting of iron objects is faster in coastal areas than in deserts.



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**24.** The gas we use in the kitchen is called liquified petroleum gas (LPG). In the cylinder it exist as a liquid. When it comes out from the cylinder it becomes a gas (Change-A) then it burns (Change-B). The following statements pertain to these changes. Choose the correct one.

A. Process - A is a chemical change

B. Process - B is a chemical change

C. Both processes A and B are chemical changes.

D. None of these processes is a chemical change.

**Answer:**



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**25.** Anaerobic bacteria digest animal waste and produce biogas (Change-A). The biogas is then burnt as fuel (Change-B). The following

statements pertain to these changes. Choose the correct one.

A. Process - A is a chemical change

B. Process - B is a chemical change

C. Both processes A and B are chemical changes.

D. None of these processes is a chemical change.

**Answer:**



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