



परमाणु ऊर्जा शिक्षण संस्था

Atomic Energy Education Society

कार्यपत्रक / Worksheet (2025-26)

कक्षा /Class: VII

विषय /Subject: Science

अंक/Marks: 40

दिया गया पाठ्यक्रम/Portion covered: Chapter:5 Changes Around Us: Physical & Chemical

SECTION: A

Multiple choice questions.

1x10=10

- Which of the following is physical change?
 - Rusting of iron
 - combustion of magnesium
 - burning of candle
 - melting of wax
- In which type of change a new substance is formed?
 - Physical change
 - Chemical change
 - Both of these
 - none of these
- Which of the following is a chemical change?
 - Burning of paper
 - Reaction of acid with base
 - addition of carbon dioxide to lime water
 - All of these
- Which of the following is/are true when milk changes into curd?
 - It changes colour
 - it changes taste
 - the change cannot be reversed
 - (b) and (c) are true
- Which of the following describes the process of depositing a zinc layer on iron?
 - Rusting
 - Galvanization
 - Crystallization
 - none of these
- Which of the following is not a chemical change characteristic?
 - Change in colour
 - Change in state
 - Change in smell
 - None of these
- What kind of change occurs when the tip of blade is placed on a gas stove?
 - Chemical change
 - Physical change
 - No change
 - irreversible change
- If you leave a piece of iron out in the open for a while, it will develop a brownish film. What is the name of this brown substance?
 - Dust
 - Rust
 - Both a) and b)
 - Brown sand
- Which of the following is a characteristic of burning?
 - It is accompanied by the production of heat.
 - O₂ is required for burning.
 - Burning is a chemical change.
 - All of the above
- Which of the following properties is not changed in a physical change?
 - Colour
 - Size
 - Shape
 - All of the above

SECTION: B

Instructions: 11 to 14

1x4=4

For each question below, select the correct option:

- Both Assertion and Reason are true, and the Reason is the correct explanation of the Assertion.
- Both Assertion and Reason are true, but the Reason is not the correct explanation of the Assertion.
- Assertion is true, but Reason is false.
- Assertion is false, but Reason is true.

11. Assertion: Dissolving salt in water is a physical change.

Reason: Salt can be recovered by evaporation.

12. Assertion: Change in the state of matter is a physical change.

Reason: No new substance is formed during a change in state.

13. Assertion: Formation of curd from milk is a physical change.

Reason: No new substance is formed during curdling.

14. Assertion: Burning of a candle shows both physical and chemical changes.

Reason: Melting of wax is a chemical change while burning is a physical change.

SECTION: C

Case based questions

1x4=4

Rena observed a burning candle. The wax near the flame melted and flowed down, while the wick burned and released smoke. Her teacher explained that two types of changes were taking place.

15. What kind of change is melting of wax?

a) Chemical

b) Physical

16. Burning of the wick is a:

c) Irreversible

d) Both physical and chemical

a) Physical change

b) Reversible change

17. Which one of the following is a reversible change?

c) Temporary change

d) Chemical change

a) Burning of wood

b) rusting of iron

18. Which statement is true?

c) Freezing of water

d) cooking of food

a) Physical changes always result in new substances

b) Chemical changes are always reversible

c) Physical changes do not alter the composition of substances

d) melting of ice is a chemical change

SECTION: D

Short Answer Questions.

5x2=10

19. What happens when magnesium ribbon is burnt in air?

20. Name one chemical change that is useful in our daily life?

21. What is galvanization? How does it prevent rusting?

22. Define a physical change with two examples?

23. State two differences between physical and chemical changes?

SECTION: E

Long Answer Questions

3x4=12

24. What happens when magnesium ribbon is burnt in air? Write the type of change and why.

25. Why is burning of a candle considered both a physical and chemical change?

26. Explain how rusting of iron is a chemical change. Also mention two conditions necessary for rusting?

27. Natural factors, such as wind, rain, etc help in the formation of soil from rocks. Is this change physical or chemical & why ?