



Name: _____ Admission # _____

Q1. Choose the correct option.

[10marks]

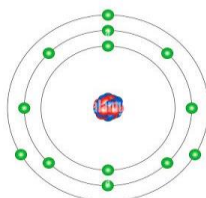
1. A glass bottle breaks into pieces when it falls. Which statement best explains this change?
A) A new substance is formed
B) The shape and size change only
C) Heat is produced permanently
D) The bottle changes into gas
2. Iron nails left outside become rusty after rain. Why is this a chemical change?
A) The nails only change color temporarily
B) The shape of the nails changes
C) A new substance called rust is formed
D) The nails become smaller only
3. Ice cream melts on a hot day. Which evidence shows this is a physical change?
A) It cannot return to its original form
B) A new substance is produced
C) Only the state changes from solid to liquid
D) Gas is released during melting
4. A student burns paper during an experiment. What makes this a chemical change?
A) The paper becomes soft
B) Ash and smoke are produced
C) The paper changes shape only
D) The paper can easily be changed back
5. Which activity involves both a physical and a chemical change?
A) Tearing a notebook
B) Melting candle wax only
C) Burning a candle
D) Freezing water
6. Which situation is the best example of a chemical change in daily life?
A) Folding clothes
B) Chopping vegetables
C) Cooking an egg
D) Breaking chalk
7. A blacksmith heats and bends iron into a tool. Why is this mainly a physical change?
A) The iron changes into another metal
B) Only the shape of iron changes
C) Gas is produced during the process
D) Rust forms on the iron
8. Sugar dissolves in water. Why is this considered a physical change?
A) Sugar disappears completely
B) A new substance is formed
C) Sugar can be recovered by evaporation
D) Heat and light are produced
9. Which observation most strongly suggests that a chemical change has occurred?
A) Change in shape
B) Change in size
C) Formation of bubbles and a new smell
D) Melting of a solid

10. A student mixes vinegar and baking soda and notices fizzing. What does the fizzing indicate?

- A) Only a physical change occurred
- B) A gas was formed during a chemical reaction
- C) The substances melted
- D) The mixture only changed color

b. Answer the following question with the help of periodic table.

[10marks]



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- Which group of the periodic table does this element belong to base on its electronic configuration?

- In which period of the periodic table is this element placed?

- What is the name and chemical symbol of this element?

- Describe any TWO uses of this element.

- What is the atomic number and mass number of this element?
