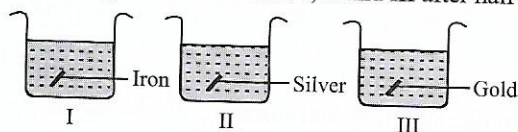
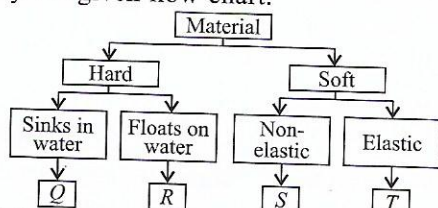


21. Vishakha took few wire pieces made up of different metals and placed them in blue coloured solution of copper sulphate. What will be the colour of the solutions present in beakers I, II and III after half an hour?



- | | | | |
|----|----------|-----------|------------|
| | I | II | III |
| A. | Green | Blue | Green |
| B. | Blue | Green | Green |
| C. | Green | Blue | Blue |
| D. | Blue | Blue | Blue |

22. Study the given flow chart.



Which of the following could be the materials Q, R, S and T?

- | | | | | |
|----|-----------|----------------|--------------|---------------|
| | Q | R | S | T |
| A. | Iron nail | Rubber ball | Pencil | Spoon |
| B. | Paper | Chalk | All pins | Steel wire |
| C. | Eraser | Stone | Wooden stick | Cotton thread |
| D. | Gold ring | Plastic bottle | Wool | Rubber band |

23. Archi, a class 7 student tested the nature of a few substances with common indicators and tabulated her observations in the given table.

S.No.	Substance	Colour with China rose indicator	Colour with methyl orange indicator
I.	Nitric acid	Green	Yellow
II.	Soda water	Magenta	Red
III.	Shampoo	Magenta	Red
IV.	Salt water	Light pink	Orange
V.	Spinach juice	Magenta	Red
VI.	Lime water	Magenta	Red

The incorrect observations are

- | | | | |
|----|--------------------|----|--------------------|
| A. | II and VI only | B. | I and III only |
| C. | I, III and VI only | D. | II, IV and V only. |

24. During an activity, Mr Rohit, a science teacher mixed the given substances in equal proportions to form a mixture.

Salt, Iron filings, Sand, Camphor powder

He handed over the mixture to his students and asked them to separate each component of the mixture by using appropriate methods.

Which of the following represents the correct sequence of the methods that can be adopted to separate each component of the mixture?

- | | |
|----|---|
| A. | Magnetic separation, sublimation, evaporation followed by sedimentation-decantation |
| B. | Magnetic separation, sublimation, filtration followed by evaporation |
| C. | Sublimation, magnetic separation, evaporation followed by filtration |
| D. | Magnetic separation, distillation, condensation followed by separating funnel |

25. Match column I with column II and select the correct option from the given codes.

Column I

- P. Ant sting
Q. Wasp sting
R. Antacid
S. Acidic soil

Column II

- (i) Vinegar
(ii) Milk of magnesia
(iii) Calamine solution
(iv) Slaked lime

- | | |
|----|--------------------------------|
| A. | P-(iv), Q-(ii), R-(iii), S-(i) |
| B. | P-(i), Q-(iii), R-(iv), S-(ii) |
| C. | P-(iii), Q-(i), R-(ii), S-(iv) |
| D. | P-(ii), Q-(iv), R-(i), S-(iii) |

26. Read the given statements and select the correct option.

Statement 1 : Burning of a candle is considered a physical as well as a chemical change.

Statement 2 : Melting of wax is a physical change, melted wax turns into vapours and then burns which is a chemical change.

- | | |
|----|---|
| A. | Both statements 1 and 2 are true and statement 2 is the correct explanation of statement 1. |
| B. | Both statements 1 and 2 are true but statement 2 is not the correct explanation of statement 1. |
| C. | Statement 1 is true and statement 2 is false. |
| D. | Both statements 1 and 2 are false. |

27. Some common items are listed as :

- | | |
|---------------------|------------------|
| i. Grapes juice | ii. Caustic soda |
| iii. Curd | iv. Washing soda |
| v. Milk of magnesia | vi. Common salt |
| vii. Sugar | |

Which of the following represents their correct classification?

- | | | | |
|----|---------------|------------------|------------------|
| | Acidic | Basic | Neutral |
| A. | (i), (ii) | (iv), (vii) | (iii), (v), (vi) |
| B. | (iv), (vi) | (i), (ii), (iii) | (v), (vii) |
| C. | (i), (iii) | (ii), (v), (vi) | (iv), (vii) |
| D. | (i), (iii) | (ii), (iv), (v) | (vi), (vii) |

28. While discussing the topic 'Rusting', Mr Ankit, a class 7 teacher wrote the following statements on the blackboard. He asked his students to find the incorrect statements.

- I. Depositing a layer of tin on iron is called galvanisation.
- II. Stainless steel rusts more quickly as it contains carbon and metals like chromium, nickel and manganese.
- III. Salty water fastens the process of rust formation.

Select the incorrect statement(s).

- | | | | |
|----|---------------|----|---------------|
| A. | III only | B. | I only |
| C. | I and II only | D. | I, II and III |