



BIOLOGY

BOOKS - NCERT EXEMPLAR

MATERIALS : METALS AND NON - METALS

Multiple Choice Questions

1. Which of the following is not a metal?

A. copper

B. aluminium

C. sulphur

D. iron

Answer:



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2. The substance that will be flattened on beating with a hammer is

A. crystal of iodine

B. piece of coal

C. lump of sulphur

D. zinc granule

Answer: D



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3. Boojho has learnt that non-metals on beating with a hammer are generally broken

into pieces. Which of the following is a non-metal?

- A. iron nail
- B. copper plate
- C. aluminium wire
- D. piece of coal

Answer: D



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4. Materials which can be drawn into wires are called ductile. Which of the following is not a ductile material?

A. silver

B. sulphur

C. copper

D. aluminium

Answer:



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5. Metals are generally hard. Which of the following metals is an exception and can be cut with a knife?

A. iron

B. gold

C. sodium

D. magnesium

Answer: C



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6. Metals are generally solid. Which of the following metals is in the liquid state at room temperature?

A. mercury

B. aluminium

C. silver

D. sodium

Answer:



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7. Metals generally react with dilute acids to produce hydrogen gas. Which one of the following metals does not react with dilute hydrochloric acid?

A. magnesium

B. iron

C. aluminium

D. copper

Answer:



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8. Which of the following reacts with cold water quite readily ?

A. carbon

B. magnesium

C. sodium

D. sulphur

Answer: C



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9. The metal which produces hydrogen gas on reaction with dilute hydrochloric acid as well as sodium hydroxide solution is

A. copper

B. aluminium

C. iron

D. sodium

Answer: B



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10. Which of the following non-metals reacts and catches fire on exposure to air?

A. phosphorus

B. sulphur

C. nitrogen

D. hydrogen

Answer: A



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11. Generally metallic oxides are basic and non-metallic oxides are acidic in nature. Solution of which of the following oxides in water will change the colour of blue litmus to red?

- A. sulphur dioxide
- B. iron oxide
- C. magnesium oxide
- D. copper oxide

Answer:



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12. Which of the following property is not responsible for copper to be used as electrical conduction wires?

A. ductility

B. colour

C. good conductor of electricity

D. it is solid

Answer:



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Very Short Answer Questions

1. Name two soft metals which can be cut with a knife.



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2. Which non-metal is essential for our life and all living beings inhale it during breathing?



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3. Name two major non-metals which are present in fertilisers and enhance the growth of plants.



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4. Which non-metal is used to disinfect water?



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5. A purple coloured non-metal forms a brown solution in alcohol which is applied on wounds as an antiseptic. Name the non- metal



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6. Zinc sulphate forms a colourless solution in water. Will you observe any colour on adding copper turning in it?



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7. Why are bells made of metals?



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8. Which liquid metal is used for making thermometers?



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9. Which of the following metals can displace the other two metals from their salt

solutions?

Zinc , iron , copper



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Short Answer Questions

1. Paheli bought a statue made of copper. To her surprise it acquired a dull green coating after a couple of months. Explain the reason.



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2. Paheli prepared a blue coloured solution of copper sulphate in beaker A and placed an iron nail in it. Boojho prepared a yellowish green solution of ferrous sulphate in beaker B and placed a copper wire in it. What changes will they observe in the two beakers after an hour?



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3. A doctor prescribed a tablet to a patient suffering from iron deficiency. The tablet does

not look like iron. Explain.



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Long Answer Questions

1. Iron is more reactive than copper. Can you write an activity to show this?



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