

Chapter 10

Metals

10.1 Properties of metals

01. 0620_w21_qp_21 Q: 25

Which statement is correct for **all** metals?

- A They conduct electricity when molten.
 - B They gain electrons when they form ions.
 - C They have a low density.
 - D They have a low melting point.
-

02. 0620_w21_qp_22 Q: 25

Which statement is correct for **all** metals?

- A They conduct electricity when molten.
 - B They gain electrons when they form ions.
 - C They have a low density.
 - D They have a low melting point.
-

03. 0620_w21_qp_23 Q: 25

Which statement is correct for **all** metals?

- A They conduct electricity when molten.
- B They gain electrons when they form ions.
- C They have a low density.
- D They have a low melting point.

04. 0620_s20_qp_21 Q: 25

Which property is shown by **all** metals?

- A They are extracted from their ores by heating with carbon.
- B They conduct electricity.
- C They form acidic oxides.
- D They react with hydrochloric acid to form hydrogen.

05. 0620_s20_qp_23 Q: 25

Which property is shown by **all** metals?

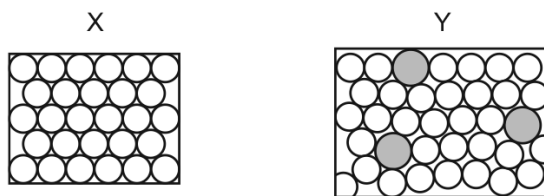
- A They are extracted from their ores by heating with carbon.
- B They conduct electricity.
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- D They react with hydrochloric acid to form hydrogen.

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10.1. PROPERTIES OF METALS

06. 0620_s19_qp_21 Q: 23

The diagrams show the structure of two substances used to make electrical conductors.



Which statement correctly describes X and Y?

- A X is a pure metal and Y is a compound.
- B X is a pure metal and Y is an alloy.
- C X is a solid and Y is a liquid.
- D X is harder and stronger than Y.

07. 0620_w19_qp_21 Q: 26

Some properties of substance X are listed.

- It conducts electricity when molten.
- It has a high melting point.
- It burns in oxygen and the oxide dissolves in water to give a solution with pH 11.

What is X?

- A a covalent compound
- B a macromolecule
- C a metal
- D an ionic compound

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08. 0620_m18_qp_22 Q: 24

Which two properties are physical properties of **all** pure metals?

	property 1	property 2
A	brittle	poor conductor of heat
B	good conductor of electricity	malleable
C	good conductor of heat	low melting point
D	malleable	low density

09. 0620_s18_qp_21 Q: 24

The following statements are made about the metals copper, iron, magnesium and zinc.

- 1 Their oxides are acidic.
- 2 They all conduct electricity in the solid state.
- 3 They all have high melting points.
- 4 They all react with dilute acids to form hydrogen.

Which statements are correct?

- A** 1 and 2 **B** 1 and 4 **C** 2 and 3 **D** 3 and 4

10. 0620_s18_qp_22 Q: 24

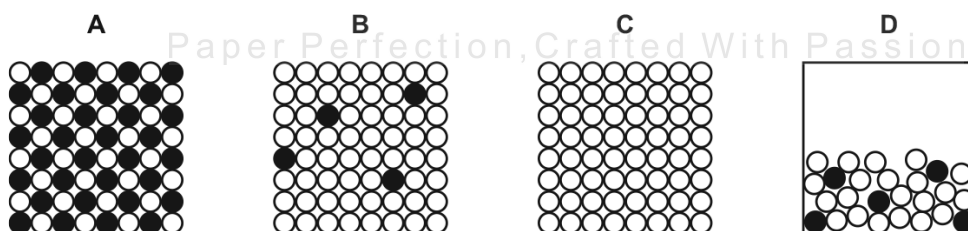
Stainless steel is an alloy of iron, carbon and other metals.

Which row is correct?

	stainless steel is harder than pure iron	stainless steel resists corrosion better than pure iron
A	✓	✓
B	✓	x
C	x	✓
D	x	x

11. 0620_s18_qp_23 Q: 24

Which diagram represents a solid alloy?



10.1. PROPERTIES OF METALS

12. 0620_m17_qp_22 Q: 26

Which statement about **all** metals is correct?

- A They are attracted to a magnet.
 - B They are weak and brittle.
 - C They may be used to form alloys.
 - D They react with water.
-

13. 0620_w17_qp_21 Q: 25

What is a property of **all** metals?

- A conduct electricity
 - B hard
 - C low melting points
 - D react with water
-

14. 0620_s16_qp_21 Q: 26

Three students, X, Y and Z, were told that solid P reacts with dilute acids and also conducts electricity.

The table shows the students' suggestions about the identity of P.

X	Y	Z
copper	iron	graphite

Which of the students are correct?

- A X, Y and Z
 - B X only
 - C Y only
 - D Z only
-

15. 0620_s16_qp_22 Q: 26

Which property is **not** considered a typical metallic property?

- A good conductor of heat
 - B low melting point
 - C malleable (can be hammered into shape)
 - D strong
-

16. 0620_s16_qp_23 Q: 25

Some properties of substance X are listed.

- It conducts electricity when molten.
- It has a high melting point.
- It burns in oxygen and the product dissolves in water to give a solution with pH 11.

What is X?

- A** a covalent compound
 - B** a macromolecule
 - C** a metal
 - D** an ionic compound
-



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SN	Paper	Q. No.	Answer
01	0620_w21_qp_21	25	A
02	0620_w21_qp_22	25	A
03	0620_w21_qp_23	25	A
04	0620_s20_qp_21	25	B
05	0620_s20_qp_23	25	B
06	0620_s19_qp_21	23	B
07	0620_w19_qp_21	26	C
08	0620_m18_qp_22	24	B
09	0620_s18_qp_21	24	C
10	0620_s18_qp_22	24	A
11	0620_s18_qp_23	24	B
12	0620_m17_qp_22	26	C
13	0620_w17_qp_21	25	A
14	0620_s16_qp_21	26	C
15	0620_s16_qp_22	26	B
16	0620_s16_qp_23	25	C



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