

Questions with Answer Keys

MathonGo

Q1: 16 March (Shift 1) - Single Correct

The process that involves the removal of sulphur from the ores is:

- (1) Smelting
- (2) Roasting
- (3) Leaching
- (4) Refining

Q2: 16 March (Shift 2) - Single Correct

Which of the following reduction reaction CANNOT be carried out with coke?

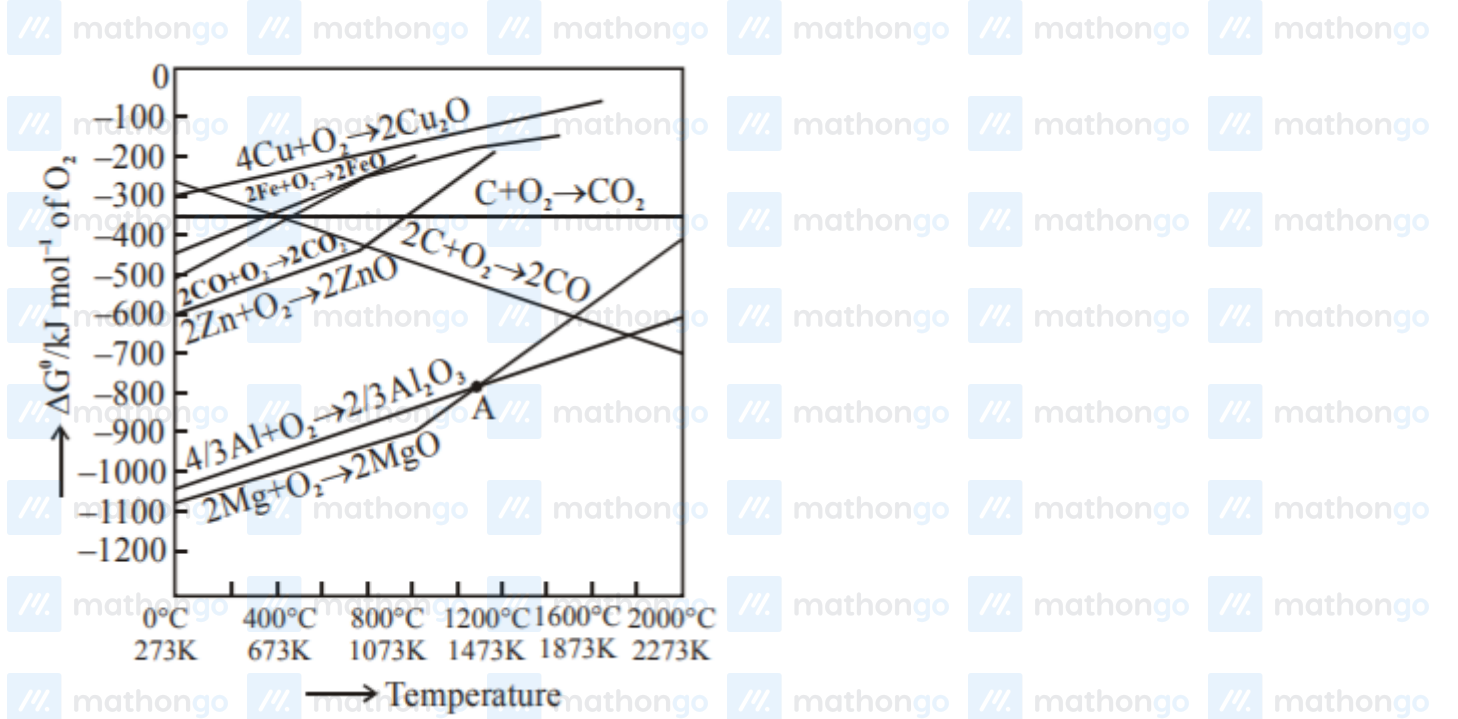
- (1) $\text{Al}_2\text{O}_3 \rightarrow \text{Al}$
- (2) $\text{ZnO} \rightarrow \text{Zn}$
- (3) $\text{Fe}_2\text{O}_3 \rightarrow \text{Fe}$
- (4) $\text{Cu}_2\text{O} \rightarrow \text{Cu}$

Q3: 17 March (Shift 1) - Single Correct

The point of intersection and sudden increase in the slope, in the diagram given below, respectively, indicates:

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- (1) $\Delta G = 0$ and melting or boiling point of the metal oxide
- (2) $\Delta G > 0$ and decomposition of the metal oxide
- (3) $\Delta G < 0$ and decomposition of the metal oxide
- (4) $\Delta G = 0$ and reduction of the metal oxide

Q4: 17 March (Shift 2) - Single Correct

Match List-I and List-II :

List-I List-II

List-I

List-II

- | | |
|---------------|-------------------------------|
| (a) Haematite | (i) $Al_2O_3 \cdot xH_2O$ |
| (b) Bauxite | (ii) Fe_2O_3 |
| (c) Magnetite | (iii) $CuCO_3 \cdot Cu(OH)_2$ |
| (d) Malachite | (iv) Fe_3O_4 |

Choose the correct answer from the options given below :

- (1) -(ii),(b)-(iii),(c)-(i),(d)-(iv)
- (2) (a)-(iv), (b)-(i), (c)-(ii), (d)-(iii)
- (3) (a)-(i), (b)-(iii), (c)-(ii), (d)-(iv)

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(4) (a)-(ii), (b)-(1), (c)-(iv), (d)-(iii)

Q5: 18 March (Shift 1) - Single Correct

The chemical that is added to reduce the

melting point of the reaction mixture during the extraction of aluminium is :

- (1) Cryolite
- (2) Bauxite
- (3) Calamine
- (4) Kaolite Official

Q6: 18 March (Shift 2) - Single Correct

Match list-I with list-II :

List-I**List-II**

- | | |
|-------------|-----------------------------|
| (a) Mercury | (i) Vapour phase refining |
| (b) Copper | (ii) Distillation refining |
| (c) Silicon | (iii) Electrolytic refining |
| (d) Nickel | (iv) Zone refining |

Choose the most appropriate answer from the option given below :

- (1) a – i, b – iv, c – ii, d – iii
- (2) a-ii, b-iii, c – i, d – iv
- (3) a – ii, b – iii, c – iv, d – i
- (4) a – ii, b – iv, c – iii, d – i

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Answer Key

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Q1 (2)

Q2 (1)

Q3 (1)

Q4 (4)

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Q5 (1)

Q6 (3)

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