

CHAPTER-5 | Minerals and Energy Resources

QUIZ
PART-03

1. What is the primary industrial use of manganese?
A. Manufacturing cement
B. Manufacturing steel
C. Making electrical cables
D. Producing alumina (B)

Explanation: Manganese is primarily used in manufacturing steel and ferro-manganese alloys.

2. Which type of iron ore has the highest iron content and excellent magnetic properties?
A. Haematite
B. Limonite
C. Siderite
D. Magnetite (D)

Explanation: Magnetite contains up to 70% iron and has strong magnetic qualities, making it valuable in the electrical industry.

3. Where are the Kudremukh iron ore mines located?
A. Odisha
B. Chhattisgarh
C. Karnataka
D. Jharkhand (C)

Explanation: Kudremukh mines are located in the Western Ghats of Karnataka and are one of the largest iron ore deposits in the world.

4. Which mineral is used in the electrical and electronic industries for its insulating properties and resistance to high voltage?
A. Bauxite
B. Mica
C. Limestone
D. Zinc (B)

Explanation: Mica is indispensable in the electrical industry due to its dielectric strength and insulating properties.

5. Which state is the largest producer of bauxite in India as of 2016-17?
A. Jharkhand
B. Gujarat
C. Odisha
D. Maharashtra (C)

Explanation: Odisha is the largest producer of bauxite in India, with significant deposits like Panchpatmali in Koraput.

6. What is a major environmental hazard associated with mining activities?
A. Increase in forest cover
B. Contamination of water sources
C. Decline in air pressure
D. Improvement in biodiversity (B)

Explanation: Mining often leads to the contamination of water sources due to waste dumping and slurry discharge.

7. Why is the conservation of mineral resources crucial?
A. Minerals are abundant and renewable
B. Minerals are finite and non-renewable
C. Mineral extraction is low-cost and easy
D. Minerals degrade quickly in air (B)

Explanation: Mineral resources are limited and take millions of years to form, making their conservation essential.

8. Which non-ferrous mineral is a good conductor and widely used in electrical cables and electronics?
A. Lead
B. Copper
C. Bauxite
D. Zinc (B)

Explanation: Copper is a ductile, malleable, and highly conductive metal used in electrical and electronic industries.

9. Which mineral is essential as a raw material in cement manufacturing and iron smelting?
A. Mica
B. Limestone
C. Bauxite
D. Quartz (B)

Explanation: Limestone is a key raw material in cement and is also essential for smelting iron ore in blast furnaces.

10. What is one suggested method for sustainable use of mineral resources?
A. Increase mining output
B. Burn mineral waste
C. Recycle and use scrap metals
D. Expand open-pit mines (C)

Explanation: Recycling and using scrap metals helps conserve mineral resources and reduce the environmental impact of mining.