

1 Jayanthi/ Bhavan's Kodungallur

2 Geography/Minerals & Energy Resources

3 (a) Core concept – Occurrence of Minerals

3 (b) Learning outcome – To recognize the mode of occurrence of Minerals

3 (c) Typology - MCQ

Q 1 Which one of the following minerals is formed by the decomposition of rocks

(a) Coal (b) Bauxite (c) Gold (d) Zinc

Ans (b) Bauxite

3(a) Core concept – Ferrous Minerals

3 (b) Learning outcome - To understand the distribution of ferrous minerals in India.

3(c) Typology – MCQ

Q 2 Which of the following iron ore deposits is known as the largest in the world?

(a) Bellari (b) Ratnagiri (c) Bailadila (d) Kudremukh

Ans (d) Kudremukh

3(a) Core concept – Rock Minerals

3(b) Learning outcome - To analyze the formation of limestone

3 (c)Typology- Assertion - Reason

Q 3 In the question given below there are two statements as Assertion and Reason.

Read the statements and choose the correct option

Assertion- Limestone is found in association with rocks composed of calcium carbonate or calcium and magnesium carbonates.

Reason – Limestone is formed in igneous rocks of most geological formation.

- (a) Both A & R are true and R is the correct explanation of A
- (b) Both A & R are true but R is not the correct explanation of A
- (c) A is true but R is false
- (d) A is false but R is true

Ans – (c) A is true but R is false.

3 (a)Core concept – Hazards of mining.

3 (b) Learning outcome - To develop awareness about the use of non conventional sources of energy Instead of conventional sources of energy.

3 (c) Typology - Case study

Q 4 The dust and noxious fumes inhaled by miners make them vulnerable to pulmonary diseases. The risk of collapsing mine roofs, inundation and fires in coal mines are a constant threat to

miners. The water sources in the region get contaminated due to mining. Dumping of waste and slurry leads to degradation of land, soil, and increase in stream and river pollution. Stricter safety regulations and implementation of environmental laws are essential to prevent mining from becoming a killer industry.

Q 1 Mention the problem faced by miners during mining activities?

Ans – The dust and noxious fumes inhaled by miners make them vulnerable to pulmonary diseases. The risk of collapsing mine roofs, inundation and fires in coal mines are a constant threat to miners.

Q 2 What is a mineral?

Ans Minerals are homogenous naturally occurring substance with a definable internal structure.

Q 3 How do we conserve minerals?

Ans – Improved technologies need to be constantly evolved to allow use of low grade ores at low costs.

Recycling of metals

Using scrap metals and other substitutes