



IRON ORE

6TH SEMESTER GEOGRAPHY HONOURS
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CONCEPT

India Is The 7th Largest Producer Of Iron Ore In The World. It Is The Most Important Metallic Mineral Found In India. Iron Ore Is Largely Found In The Areas Close To Coal, Dolomite, Limestone And Manganese Deposits.

Ore Is An Economic Mineral From Which We Can Extract Mineral. For Example Magnetite Contains More Than 70 Per Cent Of Iron And Less Than 30 Per Cent Impurities. These Impurities Are Removed In The Industries And Pure Metal Is Extracted From The Ore. Hence, Metallic Industries Are Generally Located Near The Mines To Reduce The Cost Of Transportation.

CLASSIFICATION OF IRON ORE

Magnetite

Haematite

Limonite

Siderite



USES OF IRON ORE

- ▶ Around 90 per cent of it is used for making steel
- ▶ Manufacturing of metallurgy products, magnets etc.
- ▶ Radioactive iron is used in the medical field and in biomedical research.
- ▶ It is used as a raw material in paints, printing inks, plastics, paper, dying, fertilisers etc.
- ▶ Iron plays a important role in transport industry.

DISTRIBUTION OF IRON ORE

Major Iron reserves are concentrated in following states. They are:

- ❑ **Jharkhand**- Singhbhum and Palamau districts.
- ❑ **Odisha**- Sundargarh, Mayurbhanj, Keonjhar, Cuttack, Koraput, Sambalpur and Nabrangpur.
- ❑ **Chhattisgarh**- Bailadila in Bastar districts.
- ❑ **Karnataka**- Babudan hills in Chikmagalur districts, Bellary, Shimoga and Chitradurga, Dharwar, Tumkur districts.
- ❑ **Andhra Pradesh**- Anantpur, Khammam, Krishna, Kurnool, Kadapa and Nellore.
- ❑ **Tamil Nadu**- Salem, Thirunelveli, Tiruchirapalli, Coimbatore and Madurai districts.
- ❑ **Maharashtra**- Ratnagiri, Bhandara, Osmanabad and Chandrapur districts.
- ❑ **Goa**- North Goa, Pima, Bicholim, Sanquelim, Daldal.

PROBLEMS

- Lack of capital
- Lack of technology
- Low productivity
- Environmental pollution
- Deforestation



MANAGEMENT

- ▶ Reducing wastage in mining process.
- ▶ Metal recycling using scarp metals.
- ▶ Use of renewable alternatives.
- ▶ The sustainable and planned use of mineral resources.
- ▶ Use of advanced technology to allow utilization of low rate ores at minimum costs.



A dark, textured rock specimen, possibly a mineral or fossil, is shown against a light background. The rock has a rough, crystalline appearance with some reddish-brown staining on the left side. The text "THANK YOU" is overlaid in white, bold, sans-serif font, underlined.

THANK YOU