



17 June 2024 Live Classes Schedule

8:00AM - 17 JUNE 2024 DAILY CURRENT AFFAIRS RUBY MA'AM

9:00AM - 17 JUNE 2024 DAILY DEFENCE UPDATES DIVYANSHU SIR

AFCAT 2 2024 LIVE CLASSES

2:30PM -- STATIC GK - INTERNATIONAL ORGANIZATION & HQ DIVYANSHU SIR

4:00PM - MATHS - GEOMETRY - CLASS 2 NAVJYOTI SIR

NDA 2 2024 LIVE CLASSES

11:30AM -- (GK - MINERAL & RESOURCES RUBY MA'AM

2:30PM - GS - CHEMISTRY - CLASS 6 SHIVANGI MA'AM

6:30PM MATHS - GEOMETRY - CLASS 2 NAVJYOTI SIR

CDS 2 2024 LIVE CLASSES

11:30AM GK - MINERAL & RESOURCES RUBY MA'AM

2:30PM GS - CHEMISTRY - CLASS 6 SHIVANGI MA'AM

4:00PM MATHS - GEOMETRY - CLASS 2 NAVJYOTI SIR







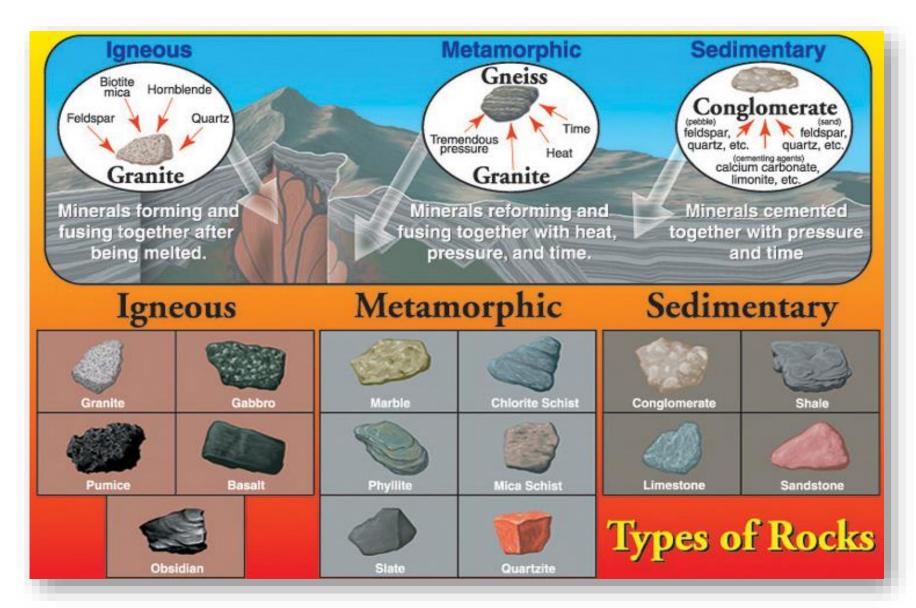


What Is Mineral

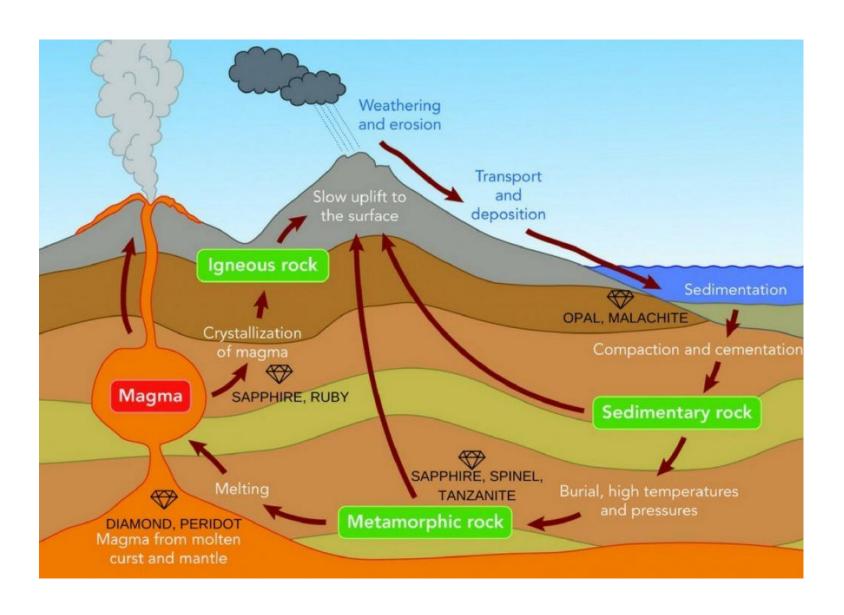
Minerals Are Naturally Occurring Inorganic Element Or Compound Having An Orderly Internal Structure And Characteristic Chemical Composition, Crystal Form, And Physical Properties. Quartz, Feldspar, Mica, Etc Are Some Examples Of Minerals.



What Is Mineral



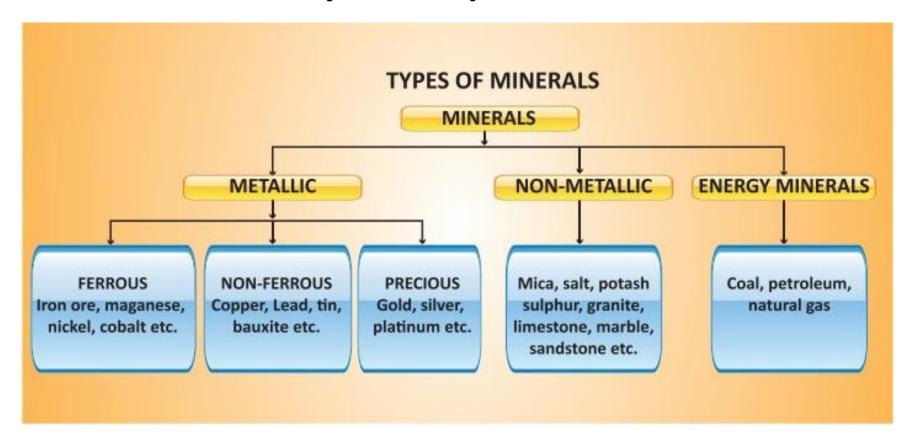
What Is Mineral



Types of Mineral

Minerals May Be Grouped Under Metallics And Non Metallics On The Basis

Of Chemical And Physical Properties:



Classification Of Minerals: Characteristics Of Minerals

Metallic Minerals: They Are The Sources Of Metals. It Includes Iron Ore,

Copper, Gold Produce Metal. Metallic Minerals Are Further Divided Into:

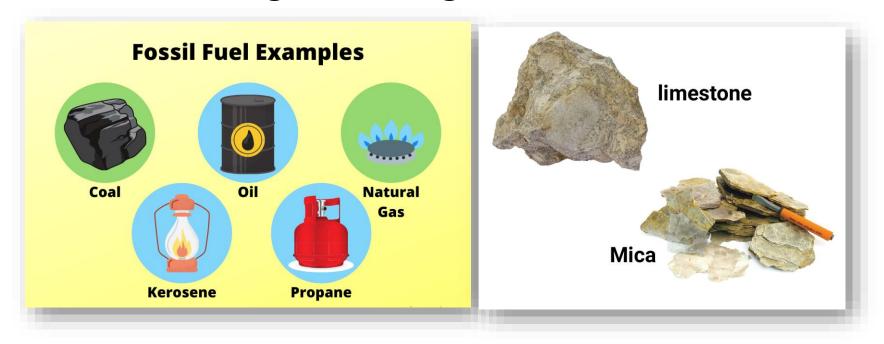
Ferrous: All Those Minerals Which Have Iron Content Such As Iron Ore Itself.

Non-ferrous: Those Which Do Not Have Iron Content Such As Copper, Bauxite, Etc.

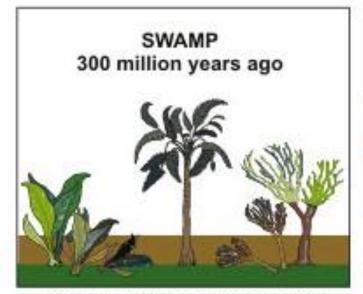


Classification Of Minerals: Characteristics Of Minerals

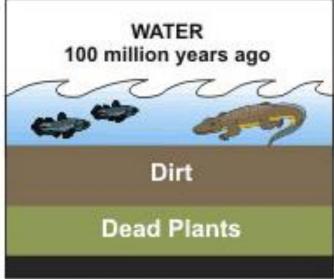
Non-metallic Minerals: They Are Either Organic In Origin Such As Fossil Fuels
Also Known As Mineral Fuels Which Are Derived From The Buried Animal
And Plant Life Such As Coal And Petroleum. Other Type Of Non-metallic
Minerals Is Inorganic In Origin Such As Mica, Limestone And Graphite, Etc.



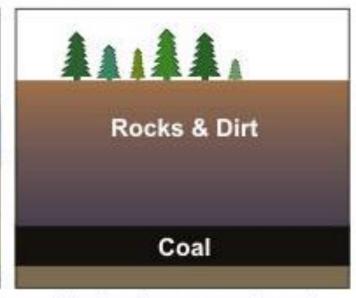
HOW COAL WAS FORMED



Before the dinosaurs, many giant plants died in swamps.

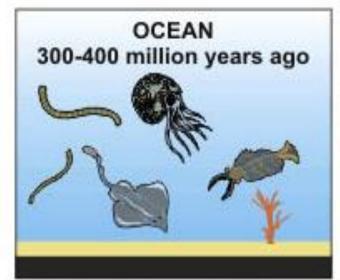


Over millions of years, the plants were buried under water and dirt.

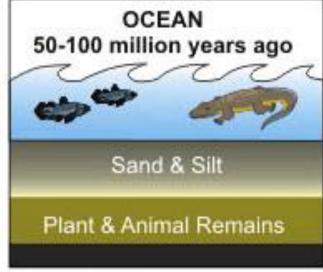


Heat and pressure turned the dead plants into coal.

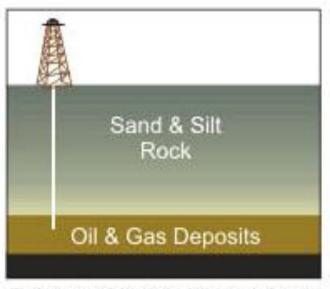
PETROLEUM & NATURAL GAS FORMATION



Tiny sea plants and animals died and were buried on the ocean floor. Over time, they were covered by layers of silt and sand.



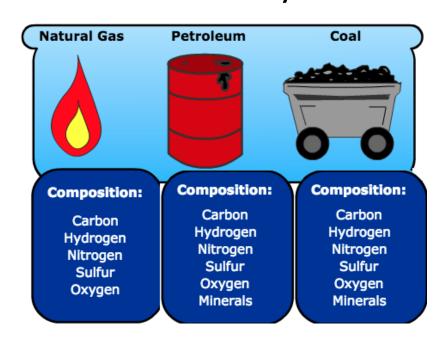
Over millions of years, the remains were buried deeper and deeper. The enormous heat and pressure turned them into oil and gas.

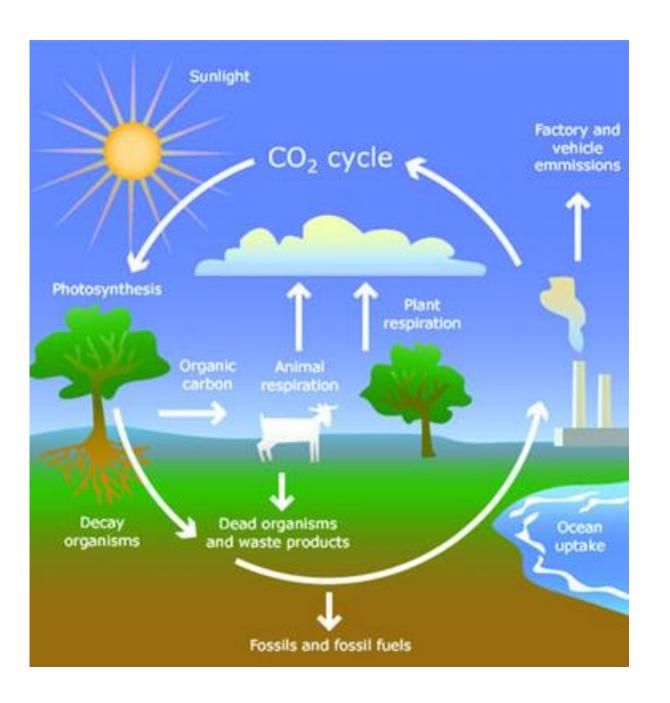


Today, we drill down through layers of sand, silt, and rock to reach the rock formations that contain oil and gas deposits.

Classification Of Minerals: Non-metallic Minerals

These Are Unevenly Distributed Over Space. There Is Inverse Relationship In Quality And Quantity Of Minerals I.E., Good Quality Minerals Are Less In Quantity As Compared To Low Quality Minerals. All Minerals Are Exhaustible Over Time & They Cannot Be Replenished Immediately At The Time Of Need.



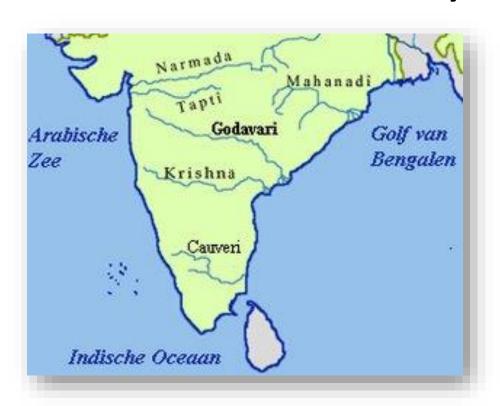


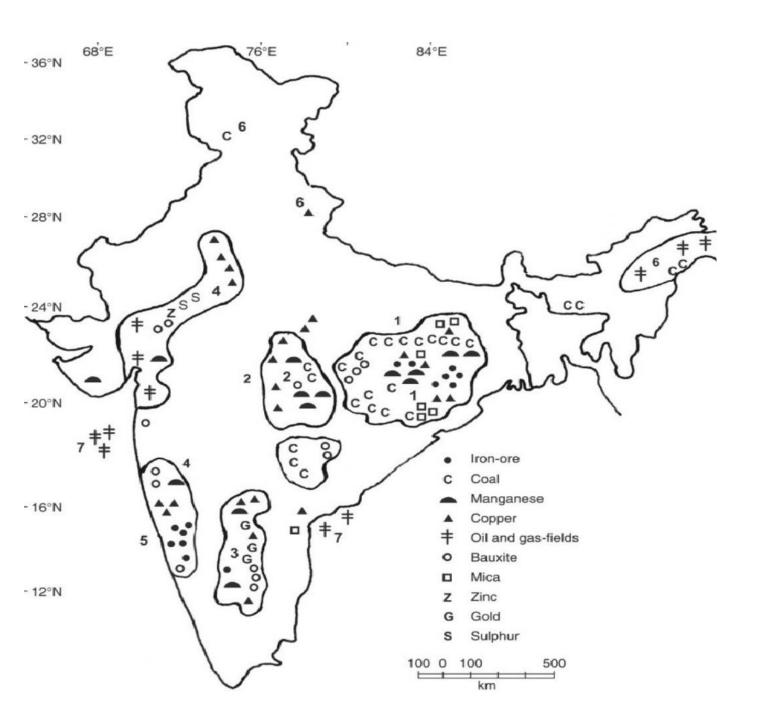
Distribution Of Minerals Resources In India

Most Of The Metallic Minerals In India Occur In The Peninsular

Plateau Region In The Old Crystalline Rocks. Over 97 Per Cent Of Coal

Reserves Occur In The Valleys Of Damodar, Sone, Mahanadi, And Godavari.





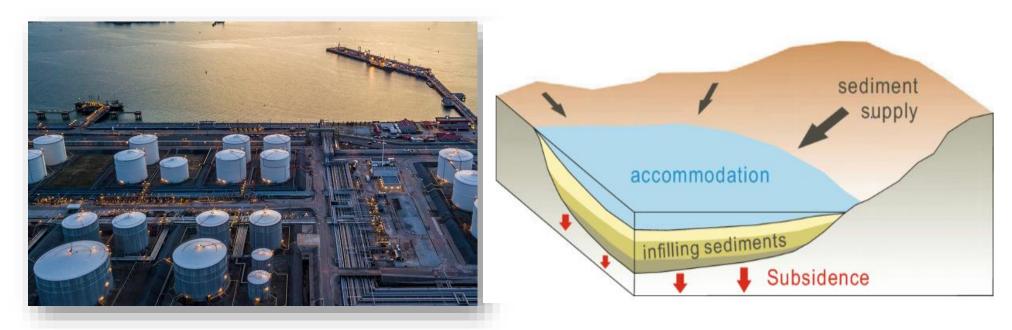
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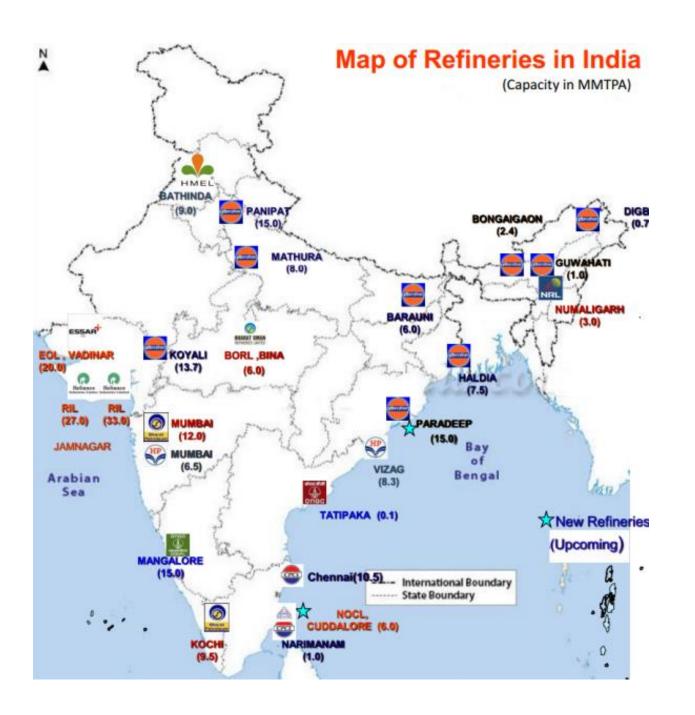
Petroleum Reserves Are Located In The Sedimentary Basins Of Assam, Gujarat

And Mumbai High i.e., Offshore Region In The Arabian Sea. New Reserves

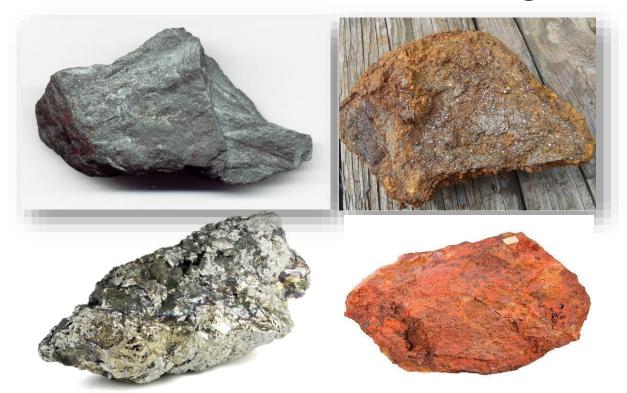
Have Been Located In **The Krishna- Godavari And Kaveri Basins**. Most Of The

Major Mineral Resources Linking Mangalore And Kanpur.





The North- Eastern Plateau Region: It Covers Chotanagpur (Jharkhand),
Odisha Plateau, West Bengal, And Parts Of Chhattisgarh. It Has Variety Of
Minerals Viz. Iron Ore Coal, Manganese, Bauxite, Mica.



The Southern - Western Plateau Region: This Belt Extends Over Karnataka, Goa And Contiguous Tamil Nadu Uplands And Kerala. This Belt Is Rich In Ferrous Metals And Bauxite And Also Contains High Grade Iron Ore, Manganese, And Limestone.



This Belt Lacks In Coal Deposits Except Neyveli Lignite. This Belt Does Not Have As Diversified Mineral Deposits As The North-eastern Belt. Kerala Has Deposits Of Monazite And Thorium, Bauxite Clay And Goa Has Iron Ore Deposits.

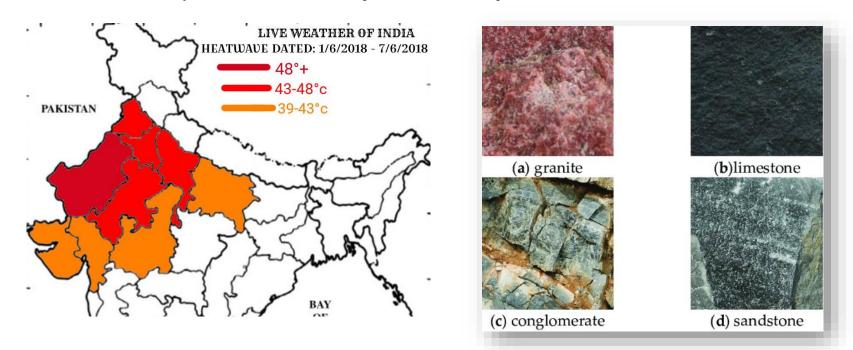


The North-western Region: This Belt Extends Along Aravali In

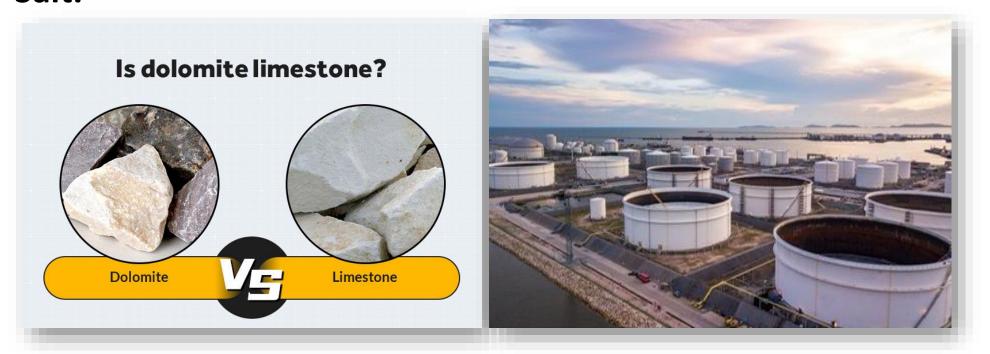
Rajasthan And Part Of Gujarat And Minerals Are Associated With Dharwar

System Of Rocks. Major Minerals: Copper, Zinc. Rajasthan Is Rich In Building

Stones I.E., Sandstone, Granite, Marble.



Gypsum And Fuller's Earth Deposits Are Also Extensive. Dolomite And Limestone Provide Raw Materials For Cement Industry. Gujarat Is Known For Its Petroleum Deposits. Gujarat And Rajasthan Both Have Rich Sources Of Salt.

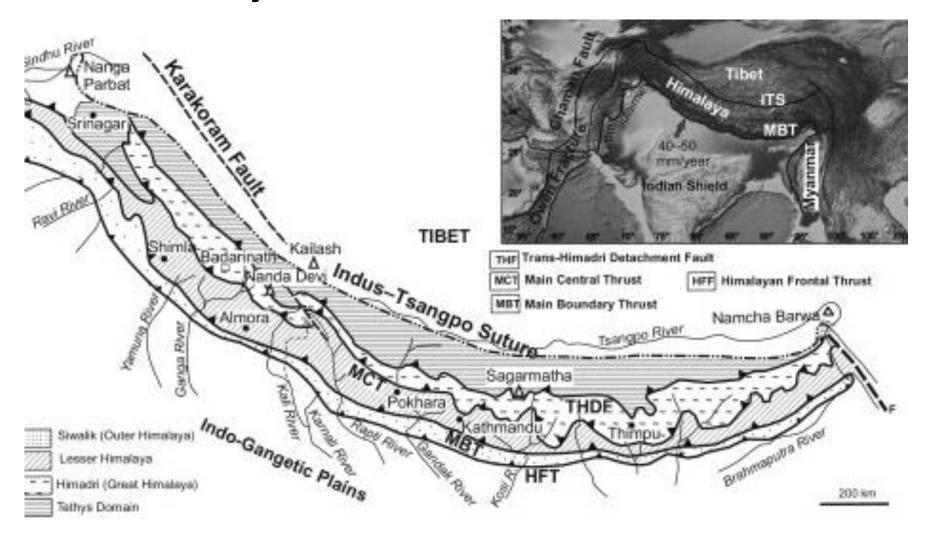


The Himalayan Belt

The Himalayan Belt Is Another Mineral Belt Where Copper, Lead, Zinc,
Cobalt, And Tungsten Are Known To Occur. They Occur On Both The Eastern
And Western Parts. Assam Valley Has Mineral Oil Deposits. Besides Oil
Resources Are Also Found In Off-shore-areas Near Mumbai Coast



The Himalayan Belt



Ferrous Mineral

Ferrous Minerals Such As **Iron Ore, Manganese, Chromite**, Etc., Provide A Strong Base For The **Development Of Metallurgical Industries**.



Iron Ore

India Has The Largest Reserve Of Iron Ore In Asia. The Two Main Types Of Ore Found In India Are Haematite And Magnetite Which Has Great Demand In International Market Due To Its Superior Quality.



Mineral	Formula	% of Iron
Hematite	$\mathrm{Fe_2O_3}$	70.0
Magnetite	Fe_3O_4	72.4
Limonite	$2\mathrm{Fe}_{2}\mathrm{O}_{3}.3\mathrm{H}_{2}\mathrm{O}$	59. 8
Siderite	$FeCO_3$	48.2

Iron Ore

The Iron Ore Mines Occur In Close Proximity To The Coal Fields In The Northeastern Plateau Region Of India Which Adds To Their Advantage. About 95 % Of Total Reserves Of Iron Ore Is Located In The States Of Odisha, Jharkhand, Chhattisgarh, Karnataka, Goa, Telangana, Andhra Pradesh, And Tamil Nadu.





State	2018-19	2019-20	2020-	2020-21 (Apr	2021-22 (Apr	%
			21(P)	Jan) (P)	Jan) (P)	growth in
						2021-
						22
						over
						2020- 21(Apr
						-Jan)
						(P)
Andhra Pradesh	654	825	360	315	266	-15.56
Chhattisgarh	34,893	34,728	36,989	27,831	32,315	16.11
Goa	0	0	94	94	0	-100.00
Jharkhand	23,433	25,015	21,434	17,573	20,680	17.68
Kamataka	29,823	31,392	34,542	28,544	33,911	18.80
Madhya Pradesh	2,802	3,343	4,094	3,187	5,504	72.70
Maharashtra	660	1,131	1,249	699	664	-5.01
Odisha	1,13,119	1,46,637	1,04,631	81,226	1,09,675	35.02
Rajasthan	1,108	1,012	1,088	873	1,020	16.84
Telnagana	2	0	0	0	0	-
All India: Total	2,06,495	2,44,083	2,04,482	1,60,341	2,04,035	27.25

Iron Ores In Odisha

Iron Ore Occurs In A Series Of Hill Ranges In Sundergarh, Mayurbhanj And Jhar. Important Mines: Gurumahisani, Sulaipet, Badampahar (Mayurbhaj), Kiruburu (Kendujhar) And Bonai (Sundergarh)



Iron Ores In Jharkhand

It Has Some Of The **Oldest Iron Ore Mines** And Most Of The **Iron And Steel**Plants Are Located Around Them. **Important Mines: Noamundi And Gua** Are
Located In **Poorbi And Pashchimi Singhbhum Districts**. This Belt Further
Extends To **Durg, Dantewara And Bailadila. Dalli, And Rajhara.**



Iron Ores In Karnataka

The Iron Ore Deposits Occur In Sandur -Hospet Area Of Ballari District, Baba Budan Hills And Kudremukh In Chikkamagaluru District And Parts Of Shivamogga, Chitradurg And Tumakuru Districts.



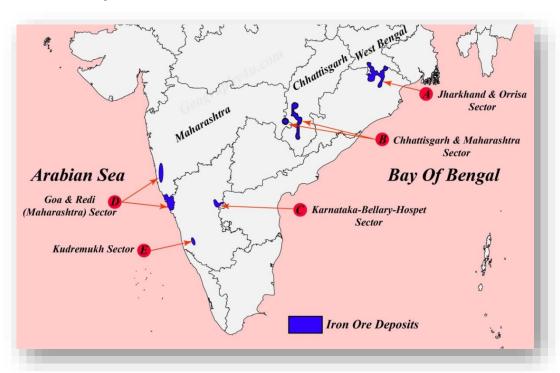
Iron Ores In Maharashtra

Maharashtra: The districts of Chandrapur, Bhandara and Ratnagiri.

Telanagana: Karimnagar and Warangal district of Telangana

Andhra Pradesh: Kurnool, Cuddapah and Anantapur districts.

Tamil Nadu: Salem and Nilgiris districts



Manganese

Manganese Is An Important Raw Material For Smelting Of Iron Ore And Also Used For Manufacturing Ferro Alloys. Manganese Deposits Are Found In Almost All Geological Formations And It Is Mainly Associated With Dharwar System.



Manganese In Odisha

Odisha Is The Leading Producer Of Manganese. Major Mines Are Located In

The Central Part Of The Iron Ore Belt Of India, Particularly In Bonai,

Kendujhar, Sundergarh, Gangpur, Koraput, Kalahandi And Bolangir.



Manganese In Karnataka

The Mines Are Located In **Dharwar**, **Ballari**, **Belagavi**, **North Canara**, **Chikkmagaluru**, **Shivamogga**, **Chitradurg And Tumakuru**.



Manganese In Maharashtra

They Are Mined In Nagpur, Bhandara And Ratnagiri Districts. The

Disadvantage To These Mines Is That They Are Located Far From Steel Plants.

The Manganese Belt Of Madhya Pradesh Extends In A Belt In Balaghat –

Chhindwara - Nimar - Mandla And Jhabua Districts. Telangana, Goa





MANGANESE ORE DEPOSITS OF INDIA



Uses: Bauxite Is The Ore Used In Manufacturing Of **Aluminium** Through **Bayer's Process**. It Is Found Mainly In **Tertiary Deposits** And Is Associated With **Laterite Rocks** Occurring Extensively Either On The Plateau Or Hill Ranges Of Peninsular India And Also In The Coastal Tracts Of India.



Odisha Happens To Be The Largest Producer Of

Bauxite. **Kalahandi** And **Sambalpur** Are The Leading Producers. The Other Two Areas Which Have Been Increasing Their Production Are Bolangir And Koraput.



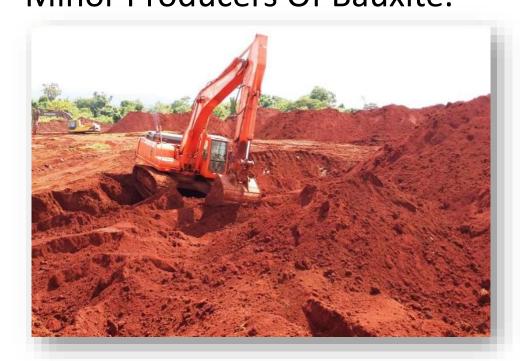
The Patlands Of Lohardaga In Jharkhand Have Rich Deposits. Gujarat,
Chhattisgarh, Madhya Pradesh (M.P.) And Maharashtra Are Other Major
Producers. Bhavanagar, And Jamnagar In **Gujarat** Have The Major Deposits. **Chhattisgarh** has bauxite deposits in Amarkantak plateau.



Katni - Jabalpur Area And Balaghat In M.P. Have Important Deposits Of

Bauxite. Kolaba, Thane, Ratnagiri, Satara, Pune And Kolhapur

In **Maharashtra** Are Important Producers. Tamil Nadu, Karnataka And Goa Are Minor Producers Of Bauxite.



Copper

Copper Is An Indispensable Metal In The Electrical Industry For Making

Wires, Electric Motors, Transformers, And Generators. Properties:

It Is Alloyable, Malleable And Ductile.

It Is Also Mixed With Gold To Provide Strength To Jewellery.



Copper

Copper Deposits: It Occur In Singhbhum District In Jharkhand, Balaghat District In Madhya Pradesh And Jhunjhunu And Alwar Districts In Rajasthan.

Minor Producers Of Copper: Agnigundala In Guntur District (Andhra Pradesh), Chitradurg And Hasan Districts And South Arcot District.



Non-Metallic Minerals

Mica Is The Important Non-metallic Minerals Produced In India. The Other Minerals Extracted For Local Consumption Are **Limestone**, **Dolomite And Phosphate**.

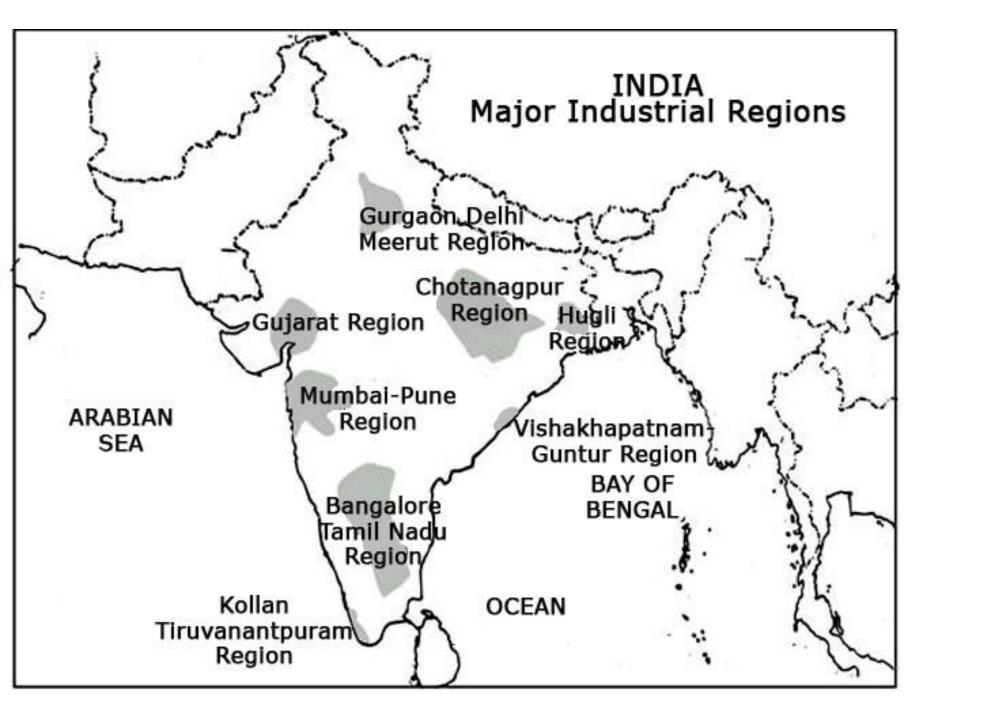




Mineral	State/ Region
Aluminium	Kerala
Antimony	Antimony deposits are found in Punjab and Karnataka.
Asbestos	Karnataka and Rajasthan.
Barytes (Barium Sulphate)	Tamil Nadu, Andhra Pradesh, Manbhum and Singhbhum districts of Jharkhand.
Bauxite	Ranchi and Palamau districts of Jharkhand, Belgaum, Jharia and Thana districts of Maharashtra, Balaghat, Jabalpur, Mandya and Bilaspur districts of Chhattisgarh.
Beryllium Sands	Rajasthan, Tamil Nadu, Kashmir and Bihar.
Cement	Katni (M.P.), Lakheri (Rajasthan), Jabalpur (M.P.), Guntur (Andhra Pradesh), Jhinikapani (Singhbhum district of Jharkhand), Surajpur (Haryana).
China Clay	Rajmahal Hills, Singhbhum district of Jharkhand, Kerala.
Chromite	Singhbhum (Jharkhand) and Bhagalpur, Ratnagiri, Salem (Tamil Nadu), Karnataka, Keonjhar (Odisha), Ladakh (Kashmir).
Coal	Raniganj (West Bengal), Jharia, Bokaro (Jharkhand), Giridih, Karanpur, Panch Valley and Chanda (M.P.), Singareni (Andhra Pradesh) and Mukum (Assam).
Cobalt	Rajasthan and Kerala.
Copper	Jharkhand (Singhbhum and Barajamda), Chhattisgarh, Rajasthan (Khetri).

Diamond	Diamond mines are found in Panna district of Madhya Pradesh, Raipur
	district of Chhattisgarh.
Feldspar	Burdwan (West Bengal), Rewa (M.P.), Tiruchirapalli (Tamil Nadu), Alwar
	and Ajmer.
Gold	Kolar gold-fields (Karnataka).
Graphite	Rajasthan, Andhra Pradesh, Madhya Pradesh, Tamil Nadu, Karnataka, Odi-
	sha and Kerala.
Gypsum	Bikaner and Jodhpur (Rajasthan), Tiruchirapalli (Tamil Nadu), Gujarat
	and Himachal Pradesh.
Iron Ore	Singhbhum (Jharkhand), Chhattisgarh, Keonjhar and Mayurbhanj (Odisha).
Lac	West Bengal.
Lead	Zawar in Udaipur and at the Banjavi mines in Jaipur.
Lignite	Neyveli in South Arcot district (Tamil Nadu).
Limestone	Singareni and Singhbhum (Jharkhand), Panchmahals (Gujarat), Balaghat,
	Bhandara, Chhindwara, Nagpur, Indore, Vishakhapatnam, Sandur (Tamil
	Nadu).

Manganese	Madhya Pradesh, Jharkhand and Chhattisgarh.
Marble	Jaipur (Rajasthan).
Mica	Koderma in Hazaribagh district, Jharkhand, Munger (Bihar), Nellore in Andhra Pradesh.
Monazite Sands	Found in abundance in Travancore Coast (Kerala).
Nitre	Bihar, U.P., Tamil Nadu and Punjab.
Petroleum	Digboi, Badarpur, Musimpur and Patharia fields of Assam.
Pitchblende	Gaya (Bihar).
Red Stone	Jodhpur (Rajasthan).
Salt	Sambhar Lake (Rajasthan), and is also obtained from ocean water in Rann of Kutch, on the north-western and south-eastern littoral (sea-shore) of India.
Saltpetre	Punjab, U.P. and Bihar.
Silmanite	Khasi Hills (Assam), Rewa (M.P).
Silver	Goldfields (Karnataka), Singhbhum and Manbhum (Jharkhand), Tamil Nadu and Rajasthan.
Tungsten	Bihar, Nagpur (Maharashtra) and Marwar.
Uranium	Bihar
Zinc	Zawar mines in Udaipur (Rajasthan).
Zircon	Beach sands of Kerala and Cape Comorin.





- Q. Consider the following statements:
 - Rajmahal highlands consist of lava flow deposits.
 - 2. Bundelkhand gneiss belong to the oldest Archaean India.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2



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Answer: C



- Explanation:
- Multiple Layers Of Solidified Lava Made 608
 M (1,995 FT) Thick Rajmahal Hill (Jharkhand).
- This Sequence Commences For The
 Bundelkhand Gneiss, Which Is One Of The
 Oldest Granites Exposed Anywhere Upon The
 Earth' Surface.





Q. Which One Of The Following Is Not Correctly Matched?

- A) Dalli Rajhara Chhattisgarh
- B) Dhanjori Jharkhand
- C) Neyveli Karnataka
- D) Singrauli Madhya Pradesh



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Q. Which Among The Following Is India's First Oil Refinery?

- A) Jamnagar
- B) Digboi
- C) Mathura
- D) All Of The Above

Q. Which Among The Following Is India's First Oil Refinery?

- A) Jamnagar
- B) Digboi
- C) Mathura
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- Explanation:
- The Digboi Refinery Was Set Up At Digboi In
 1901 By Assam Oil Company Ltd Is The First
 Oil Refinery Established In India.
- It Stands As The First And Oldest Oil
 Refinery In Entire Asia Continent.



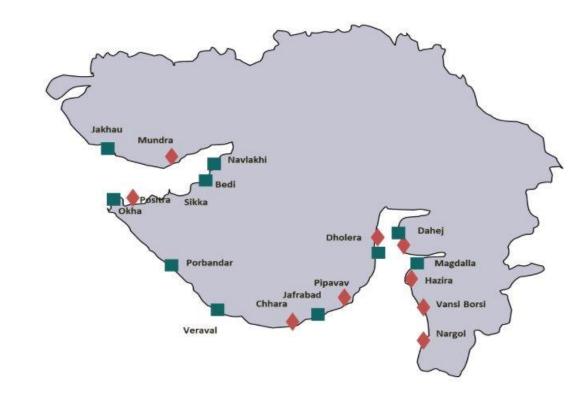
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- (A) Jamnagar
- (B) Okha
- (C) Porbandar
- (D) Veraval



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- (A) Jamnagar
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- (C) Porbandar
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- Explanation:
- One Of The Top 12 Major Ports In The Country, Had Been Rechristened As
 Deendayal Port In The Name Of Pandit
 Deendayal Upadhyaya.
- It Is One Of The Busiest Ports Of India Which Handles One-fifth Of The Foreign Trade Of India.



Manikaran in Himachal Pradesh is known for:

- (a) Solar energy.
- (b) Geothermal energy.
- (c) Bioenergy.
- (d) Wind energy.

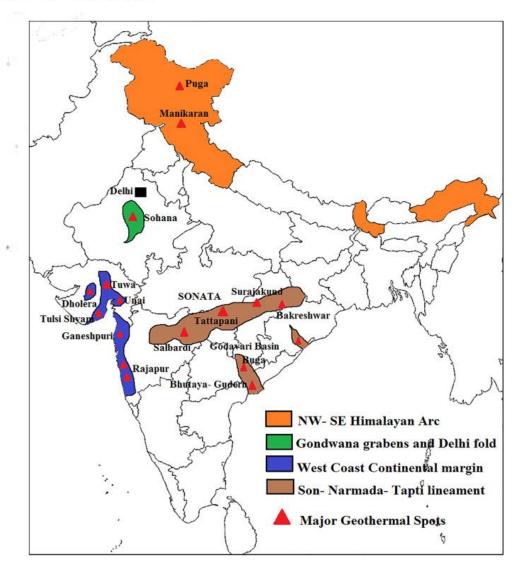


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Answer: B



Q. Which One Among The Following Places Is Not An Iron- Ore Mining Area?

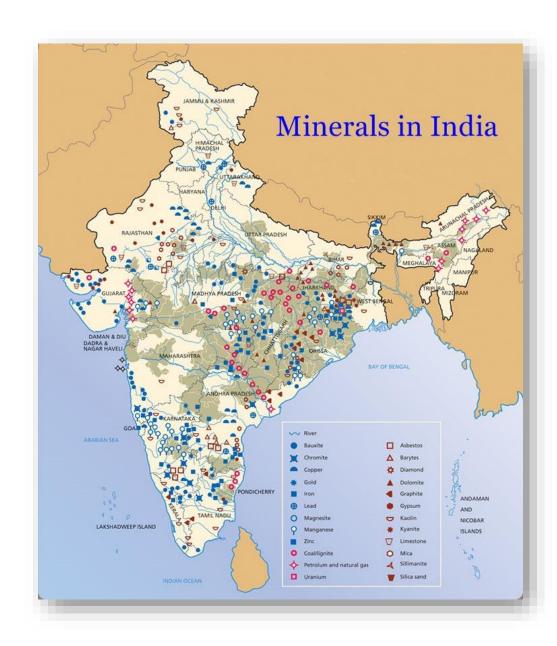
- (A) Badampahar
- (B) Zawar
- (C) Bailadila
- (D) Anantpur

Q. Which One Among The Following Places Is Not An Iron- Ore Mining Area?

- (A) Badampahar
- (B) Zawar
- (C) Bailadila
- (D) Anantpur



- Explanation:
- Zawar Is A Settlement Located In Udaipur
 District, Rajasthan. Zawar Is One Of The
 Oldest Zinc Mines Of The World
- Badampahar: Iron Ore, Hematite Mined (Odisha).
- Bailadila: Chhattisgarh
- Anantpur: Andhra Pradesh



Q. Consider The Following Statements—

- 1. Balaghat Is Known For Its Diamond Mines.
- 2. Majhgaon Is Known For Its Manganese Deposits.

Which Of The Statements Given Above Is/Are Correct?

- (A) 1 Only
- (B) 2 Only
- (C) Both 1 And 2
- (D) Neither 1 Nor 2

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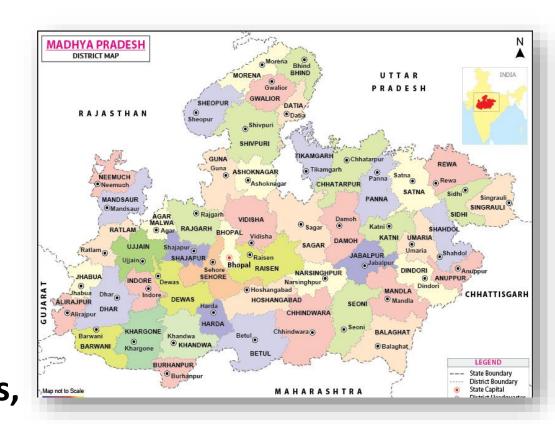
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- (C) Both 1 And 2
- (D) Neither 1 Nor 2



- Explanation:
- Balaghat Is Known For Its Manganese
 Production.
- About 80% Of Manganese Production Of The Country Comes From Balaghat.
- Majhgaon Is Known For Its Diamond Mines,
 Which Is Situated In The Panna District Of
 Madhya Pradesh.



Q. Consider The Following Statements Regarding Distribution Of Mineral And Energy Resources In India:

- I. Coal Deposits Are Mostly Associated With Gondwana System.
- Ii. Dharwar And Cuddapah Systems Contain Resources Of Major Metallic Minerals Like Copper, Lead, Zinc Etc.
- Iii. Major Non-metallic Minerals Like Limestone,
 Dolomite, Gypsum, Calcium, Sulphate Etc Are Found In And Upper
 Vindhyan System.

Which Of The Following Statement(s) Is/Are Correct?

A. Only I B. I And II C. II And III D. All Of The Above

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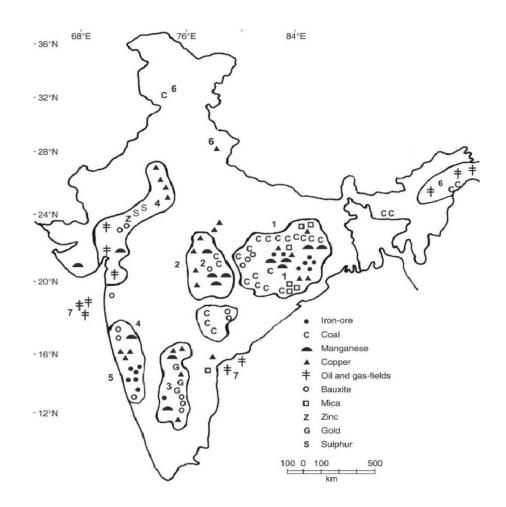
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- Explanation:
- Coal Deposits Are Mostly Associated With Gondwana System, Dharwar And Cuddapah
 Systems Contain Resources Of Major Metallic
 Minerals Like Copper, Lead, Zinc Etc.
- Major Nonmetallic Minerals Are Found In Cuddapah And Upper Vindhyan System.





Q. Choose The Incorrect One:

A. Coal Karanpura

B. Gold Hutti

C. Mica Vellore

D. Manganese Bhandara



Q. Choose The Incorrect One:

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B. Gold Hutti

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- Explanation:
- **Nellore** Is Famous For **Mica**





Q. Which One Of The Following Rock Systems In India Is The Main Source Of Coal Deposits?

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- (B) Gondwana System
- (C) Cudapah System
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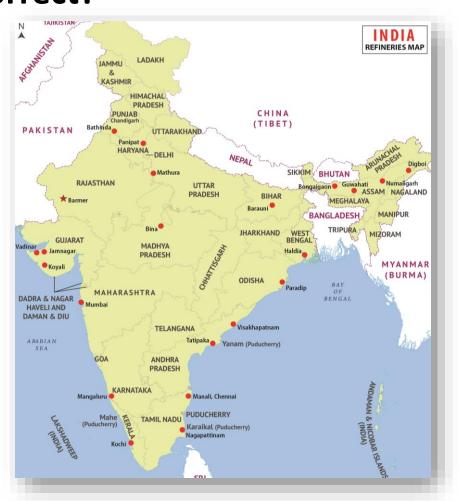
Q. Which Of The Following Sequences Of The Oil Refineries Of India As They Occur From South To North Is Correct?

- (A) Kochi Mangalore Mumbai Koyali
- (B) Koyali Mumbai Mangalore Kochi
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- (A) Madhya Pradesh
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and ____ ?

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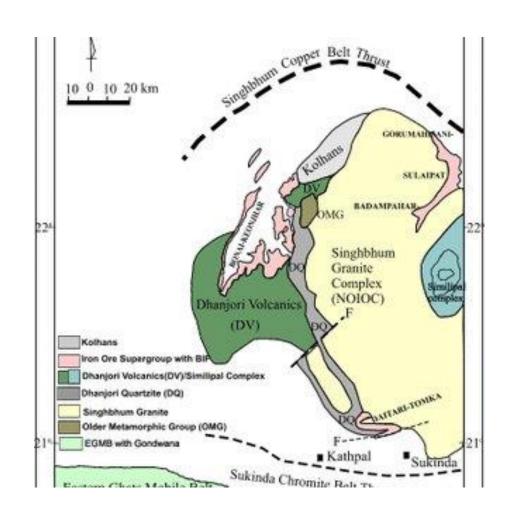
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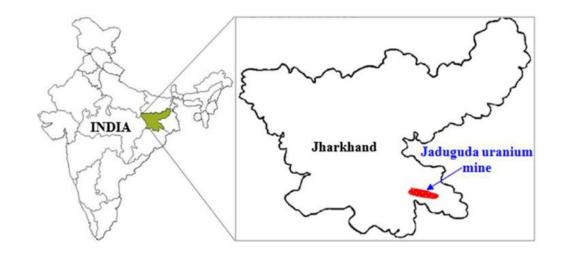
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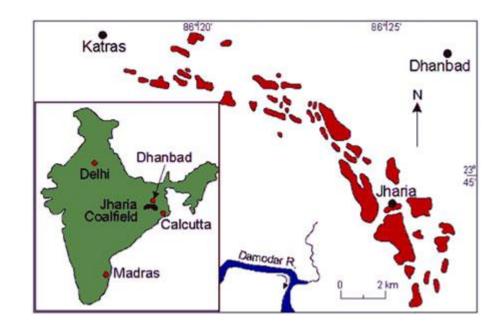


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Q. It Forms The Bed-rock Of All Industrial Activities And Is Considered "Mother Industry".

- A) Iron And Steel Industry
- B) Cement Industry
- C) Petro-chemical Industry
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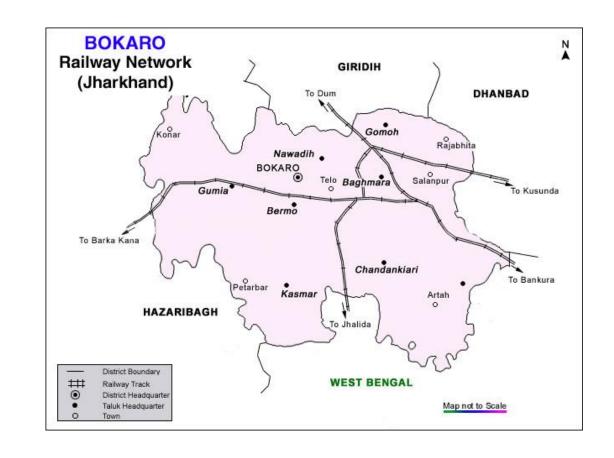
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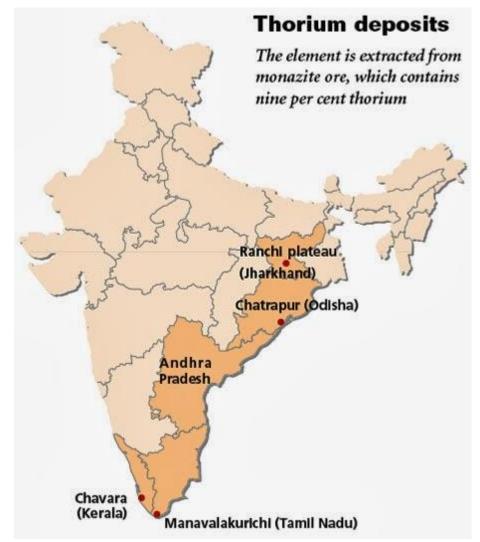
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- b) Petro Nagthane
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Rourkela Steel Plant (RSP), the first integrated steel plant in the public sector in India, was set up with German collaboration with an installed capacity of 1 million tonnes. Subsequently, its capacity was enhanced to 1.9 million tonnes.

RSP was the first plant in India to incorporate LD technology of steelmaking.

It is **also the first steel plant in SAIL** and the only one presently where 100% of slabs are produced through the cost-effective and quality-centric continuous casting route.

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- A) Pune
- B) Karnal
- C) Ambala
- D) Izzatnagar

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Q. Gujarat is the largest producer of salt in India because

- (A) It Has Extensive Dry Coast
- (B) Its Coastal Waters Are Very Saline
- (C) It Has Extensive Shallow Seas
- (D) Besides Producing Salt From Saline Water, It Has Reserves Of Rock Salt



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Q. factors are responsible for India's failure to fully exploit the inland fisheries

- I) Silting and pollution of the inland water bodies
- II) Deforestation in the catchment areas of the rivers
- III) Lack of marketing facilities

Select the correct answer from the codes given below

- A) I, II and III
- B) I and II
- C) I and III
- D) II and III



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Q. The river Godavari is often referred to as Vridha Ganga because

- A. It Is The Older River Of India
- B. Of Its Large Size And Extent Among The Peninsular Rivers
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- Q. Which of the following statements is/are correct?
 - India is a signatory to the United Nations Convention to Combat Desertification (UNCCD).
 - Ministry of Home Affairs is the nodal Ministry in the Government of India for the UNCCD.

Select the correct answer using the code given below:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

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ANSWER: A

India is a Party to the United Nations Convention for Combating Desertification (UNCCD). The Ministry of Environment, Forest, and Climate Change is the nodal Ministry of Government of India (GoI) that oversees the implementation of the Convention in the country.

- Q. Which one of the following is the most noticeable characteristic of the Mediterranean climate?
 - (a) Limited geographical extent
 - (b) Dry summer
 - (c) Dry winter
 - (d) Moderate temperature

- Q. Which one of the following is the most noticeable characteristic of the Mediterranean climate?
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ANSWER: B

A Mediterranean climate or dry summer climate is characterized by dry summers and mild, wet winters. Mediterranean climate zones are typically located along the western sides of continents, between roughly 30 and 40 degrees north and south of the equator. The main cause of dry summer climate, is the subtropical ridge.

- Q. Which one of the following rivers takes a 'U' turn at Namcha Barwa and enters India?
 - (a) Ganga
 - (b) Tista
 - (c) Barak
 - (d) Brahmaputra

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ANSWER: D

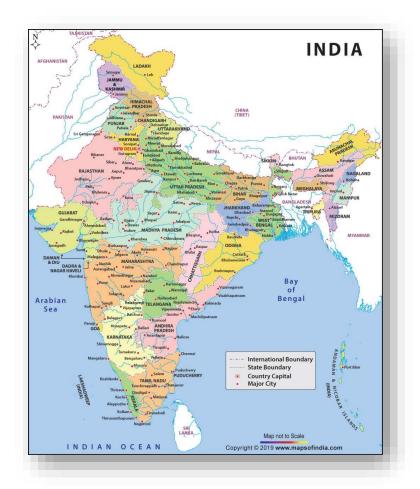
The river Brahmaputra originates on the **Angsi Glacier** which is located on the Northern Side
of the Himalayas in Burang, Tibet. Tsangpo or
Brahmaputra takes a U-turn at Namcha Barwa
before entering Arunachal Pradesh, where it is
called Dihang or Siang River.

- Q. Which one of the following Indian States has no international boundary?
 - (a) Bihar
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ANSWER: B



- Q. Which one of the following Indian cities is not located on a river bank?
 - (a) Agra
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Q. Which one of the following Indian cities is not located on a river bank?

- (a) Agra
- (b) Bhagalpur
- (c) Bhopal
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ANSWER: C

Bhagalpur is located on the bank of Ganges.

Agra is located on the bank of Yamuna.

Kanpur is located on the bank of the Ganges.

- Q. Where are Jhumri Telaiya and Mandar Hills situated?
 - (a) Jharkhand
 - (b) Bihar
 - (c) Assam
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ANSWER: A,B

Jhumri Telaiya is located in Jharkhand.

Mandar Parvat, also known as Mandar Hill is a small mountain situated in Banka district under the Bhagalpur division of the state of Bihar.

- Q. Which one of the following is **not** correct regarding South India?
 - (a) Diurnal range of temperature is less
 - (b) Annual range of temperature is less
 - (c) Temperature is high throughout the year
 - (d) Extreme climatic conditions are found

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ANSWER: D

The region has a tropical climate and depends on monsoons for rainfall. according to the köppen climate classification, it has a non-arid climate with minimum mean temperatures of 18 °c (64 °f).

- Q. Which one of the following statements regarding sex composition is **not** correct?
 - (a) In some countries, sex ratio is expressed as number of males per thousand females.
 - (b) In India, sex ratio is expressed as number of females per thousand males.
 - (c) At world level, sex ratio is about 102 males per 100 females.
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ANSWER: D

Asia is the only continent with a sex ratio >100, at 104; North America stands at 96.8 and Africa at 99.8.

- Q. Which one of the following regions is an important supplier of citrus fruits?
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ANSWER: B

Countries along the Mediterranean Region rank first worldwide when it comes to supplying Citrus Fruits. According to the CLAM Data, the Mediterranean Region accounts for 60% of the world's fresh citrus fruit supply. Citrus fruits require sunshine and moderate climate and light winter rainfall, and long moderate summer helps them grow more.

- Q. Which one of the following is **not** a geographical requirement for cultivation of cotton?
 - (a) Temperature reaching 25°C or more in summer
 - (b) Moderate to light rainfall
 - (c) Medium loam soil with good drainage
 - (d) A growing period of at least 100 frost free days

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ANSWER: D

Cotton requires at least 180 frost-free days, and 200 frost-free days are more desirable for the cultivation. Moderate Rainfall - 55-100 cm. Fertile Loamy Black soil with proper cracks to allow aeration. Fertile alluvial soil is good too. Temperature - 20-28°C with bright sunshine.

- Q. Which one of the following statements regarding temperate conferous forest biome is **not** correct?
 - (a) They are characterized by very little undergrowth.
 - (b) They have a growing period of 50 to 100 days in a year.
 - (c) There is low variation in annual temperature.
 - (d) There is high range in spatial distribution of annual precipitation.

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ANSWER: C

The average temperature of the Coniferous

Forest Biome is 50 degrees Fahrenheit. The

average winter temperature ranges from -40°C

to 20°C. The average summer temperature is

10°C. Thus, the annual temperature variation

is quite high.