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in this Area



(Don't Write
anything in this Area)

GS Advanced Program 2023

Generic Booklet

Test Name/Code/No. : **69/035**

Name	
Email ID.	
Roll No.	
Mobile No.	

Allotted Time : 60 Minutes

Instructions to Candidates -

- There are 7 Questions in this Question paper.
- All Questions are Compulsory.
- For all updates, please visit the noticeboard -
<https://noticeboard.forumias.com/gsap-2023/>

Important -

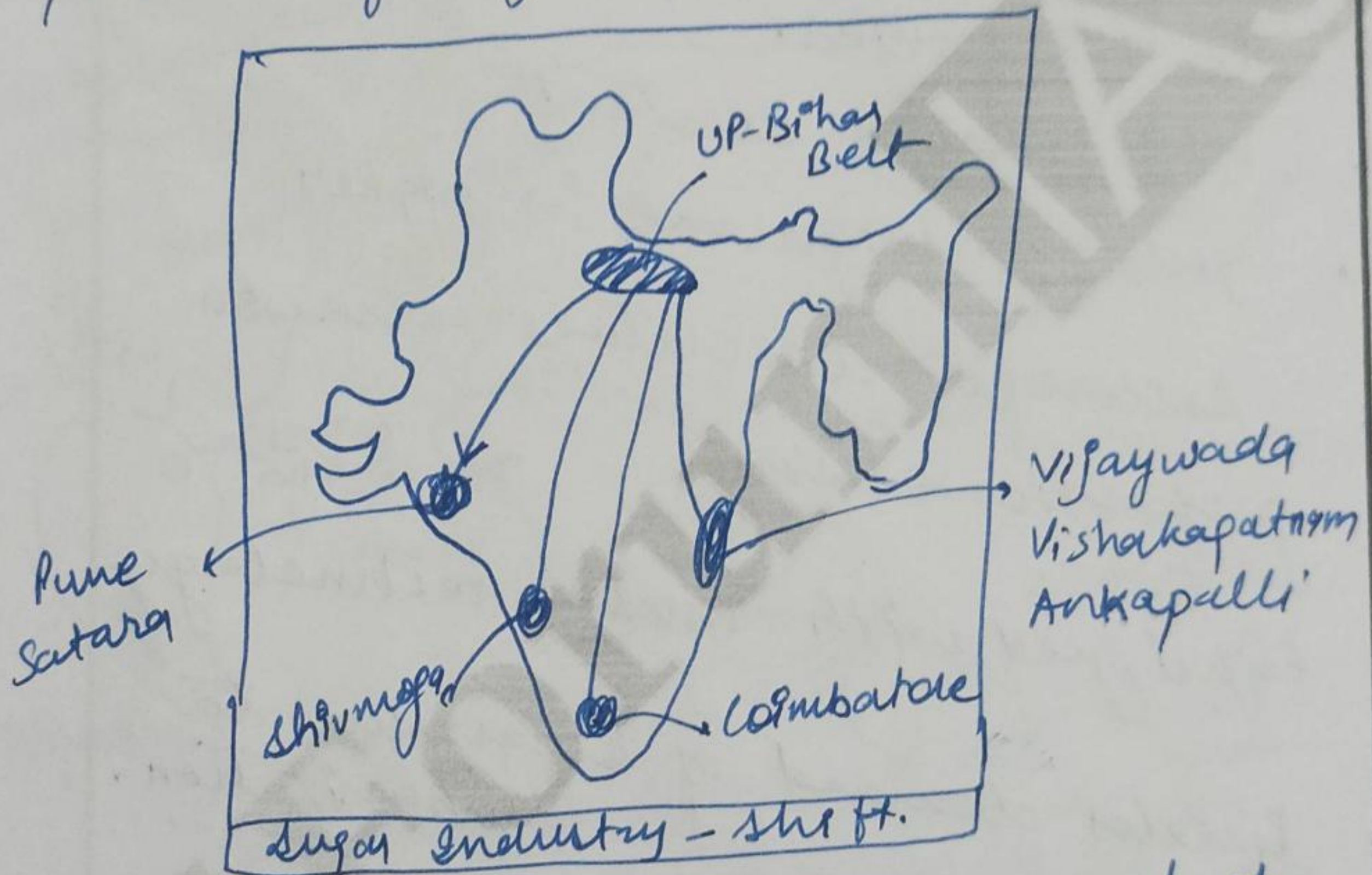
- Answers must be attempted in the QCA Booklet only.
- To upload the Answer Copies please visit to "My Course" section on -
<https://academy.forumias.com/>
- Only those copies will be evaluated which will be submitted before the next class.

Q. No.	Grade/Score
1	
2	
3	
4	
5	
6	
7	
Overall Grade/Score	

Start Writing Here

Q.1)

Sugar Industry is weight losing industry and located near the source of Raw material. India is 2nd largest producer of sugar.



There has been a growing trend of opening new sugar mill in southern states due to :-

- ① Push factors
- Low yield of sugar in North India
 - Crushing season limited to 3-4 months.

- Low sucrose content
- Failure of cooperatives due to ^{poli} ~~poli~~ ^{tical} interference.

② Pull factors of Southern India

- Tropical climate - crushing season is 7-8 months.
- High sucrose content
- Yield of sugarcane is higher
- Successful cooperatives due to professionalism
- Equipped with modern technology.
- Greater demand of sugar due to urbanization.

We can diversify sugar industry into paper and pulp industry by using bagasse and also government's flagship program of ethanol blending.

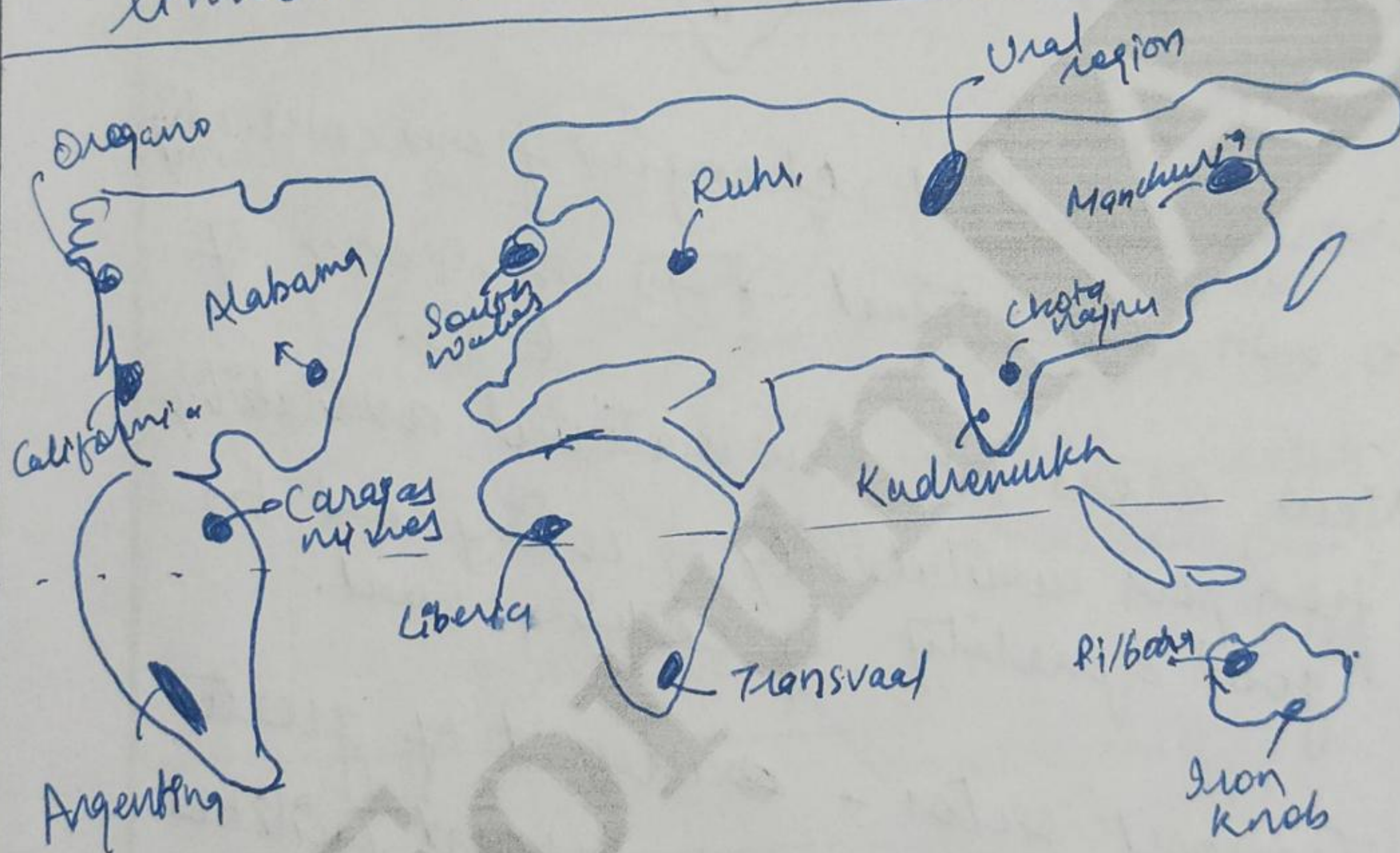
Overall Grading (✓)

Poor			Average			Good		
1	2	3	4	5	6	7	8	9

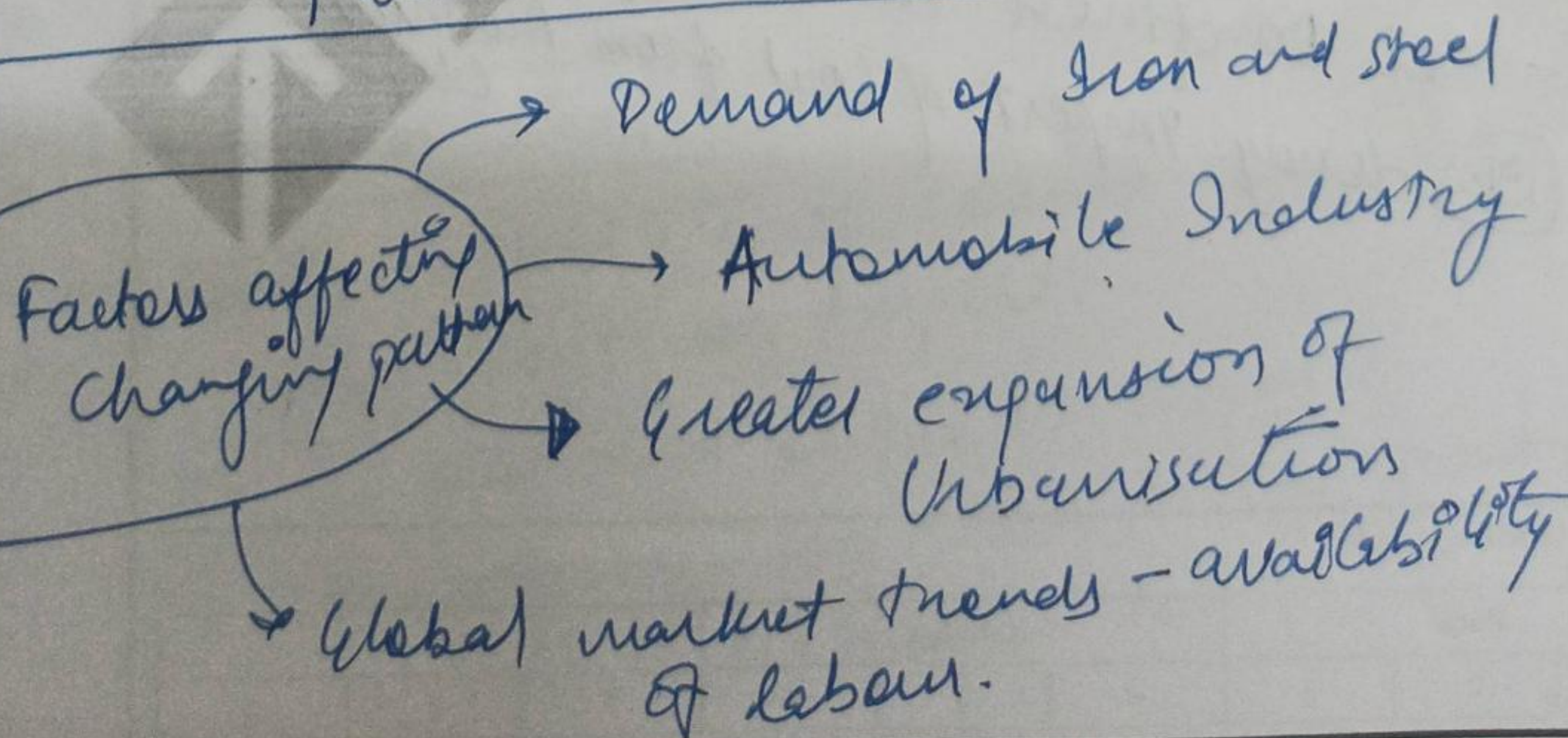
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Q.2)

Iron and steel industries are heavily dependant on the location of raw material such as coal, Iron ore, limestone, manganese etc.




World Distribution of Iron ore



Change in Spatial Pattern

- ① Mini Iron Industries coming up → due to greater use of ~~scrap~~ scrap iron.

[eg:] India →  Chotanagpur Plateau.

- ② Energy demand changing from conventional ^{way} → [eg:] emergence of EVs.

- ③ New areas for raw material availability [eg:] from poor availability of coking coal to good quality of coking coal.

- ④ Transport sector - ~~advent~~ advent of greater connectivity → better transport facilities - not confined to nearby areas. [eg:] Heavy import of coal from Australia to China.

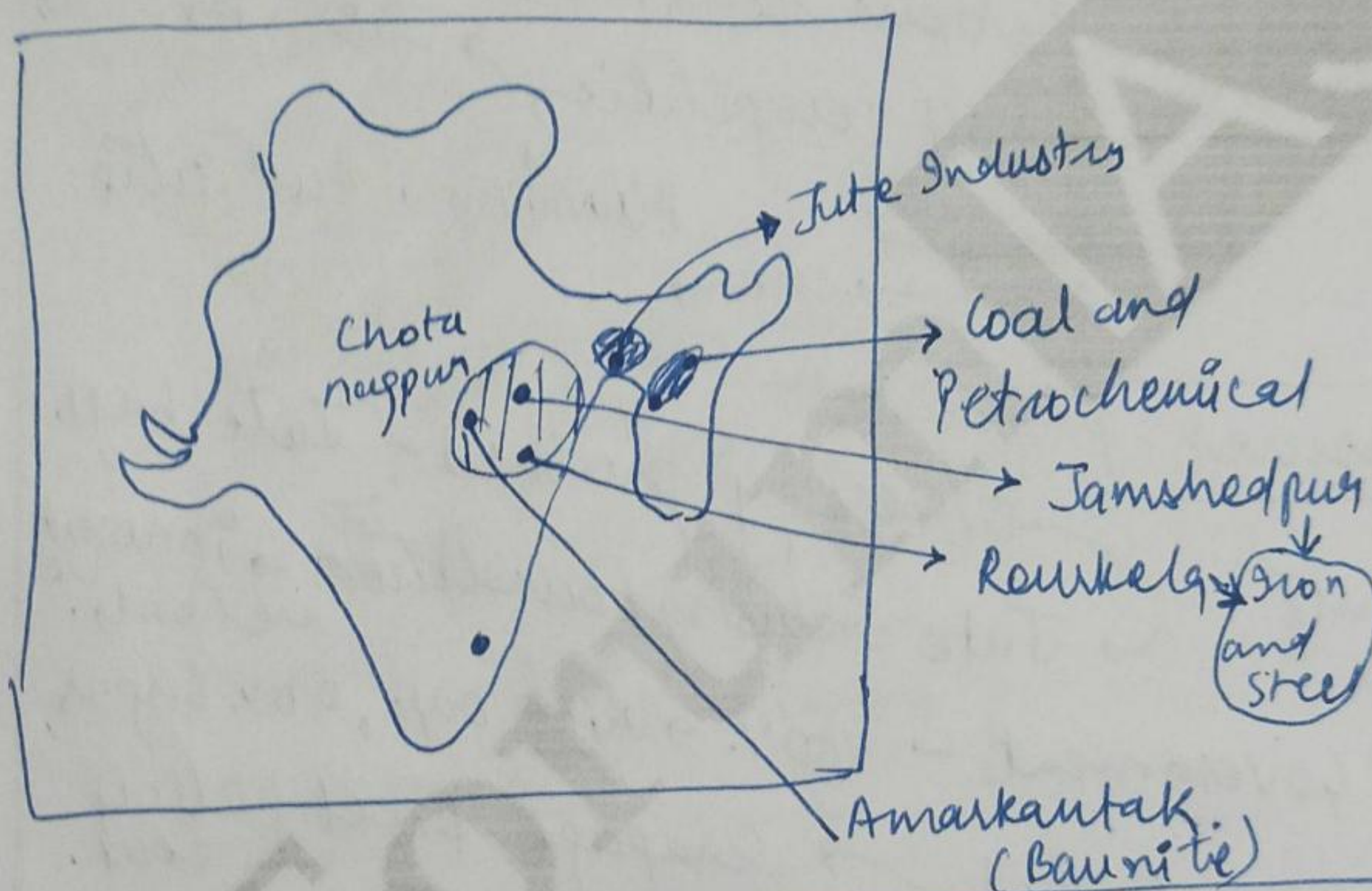
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Q.3)

Industries such as iron and steel, petrochemical, coal, cotton, Jute etc form basic component in the development of India's economy.



Causes of sickness for industries → eastern region.

① Iron and steel

- ↳ ~~Low~~ availability of coking coal - dependent on import.
- ↳ Global glut and surge in imports
- [e.g.] China produces - 1000 million tonnes against India - 48 million tonnes.

② Tute Industry

- ↳ Obsolete Retting technology
- ↳ variability in Rainfall

③ Aluminium Industry

- ↳ Long gestation period [29%] BALCO - 34 years.

④ Others

- ↳ Labour strikes
- ↳ Stiff competition
- ↳ Iron and steel → China
- ↳ Tute → Bangladesh
- ↳ Aluminium → Australia

Measures

① Tute

- ↳ Diversify products - Tute bags.
- ↳ Tute Industry Foundation → innovative methods.
- ↳ Government → 100% → Rice bags, 20% Sugar

② Iron and steel

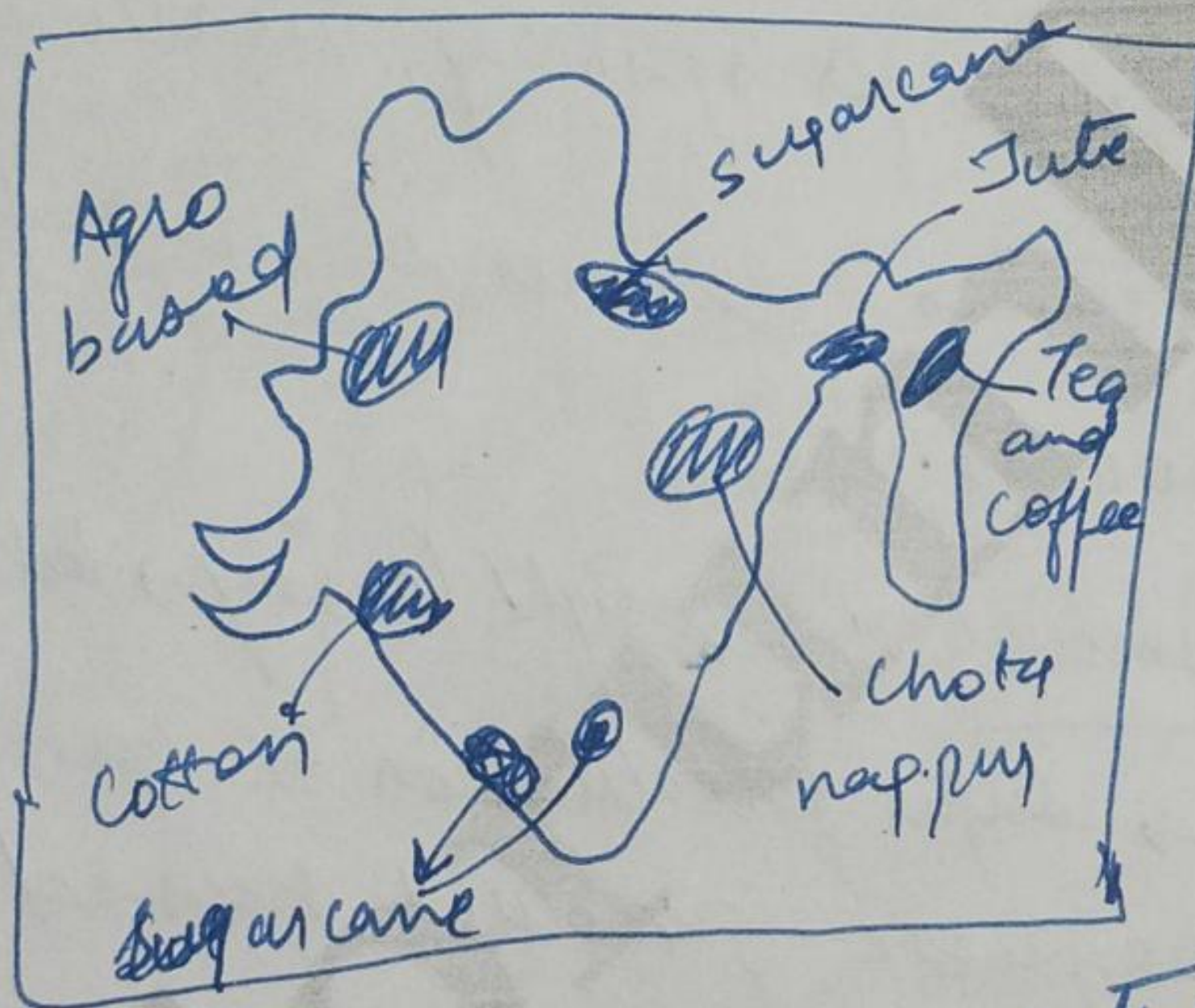
- ↳ Scrapage steel policy 2007.
- ↳ PLI - for selected steel plants
- ↳ Easing of norms → captive mining.

③ Rationalisation of labour laws.

Overall Grading (✓)								
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Q.4)

Manufacturing industry's contribution is stagnant in GDP of around 17%. Regional Resource based strategy can give a push to the manufacturing industry.



Regional Resource based Manufacturing

① Agro based food processing (North west)

↳ Production of Pickle, Jam, tomato puree etc → require cheap labour
 ↳ cater to employment of many workers.

- ② Mineral Based → Iron and Steel Industry. - at Chotanagpur Plateau
→ Require semi-skilled labourers →
Core parts of Jharkhand, Bihar, West Bengal etc.
- ③ Cotton and Petrochemical Industry -
in Gujarat, Mumbai → cheap labour
~~also~~ require for spinning, weaving.
- ④ Textile Industry → labour require for
Ketting process.
- ⑤ Sugarcane Industry → weight lossing → labour
requirement → sugar production → can also
diverse to bagasse product based paper
and pulp industry.

Agglomeration of industries would
lead to greater demand of industrial
workers such as creation of SEZs → would
help in solving problem of unemployment
in the country.

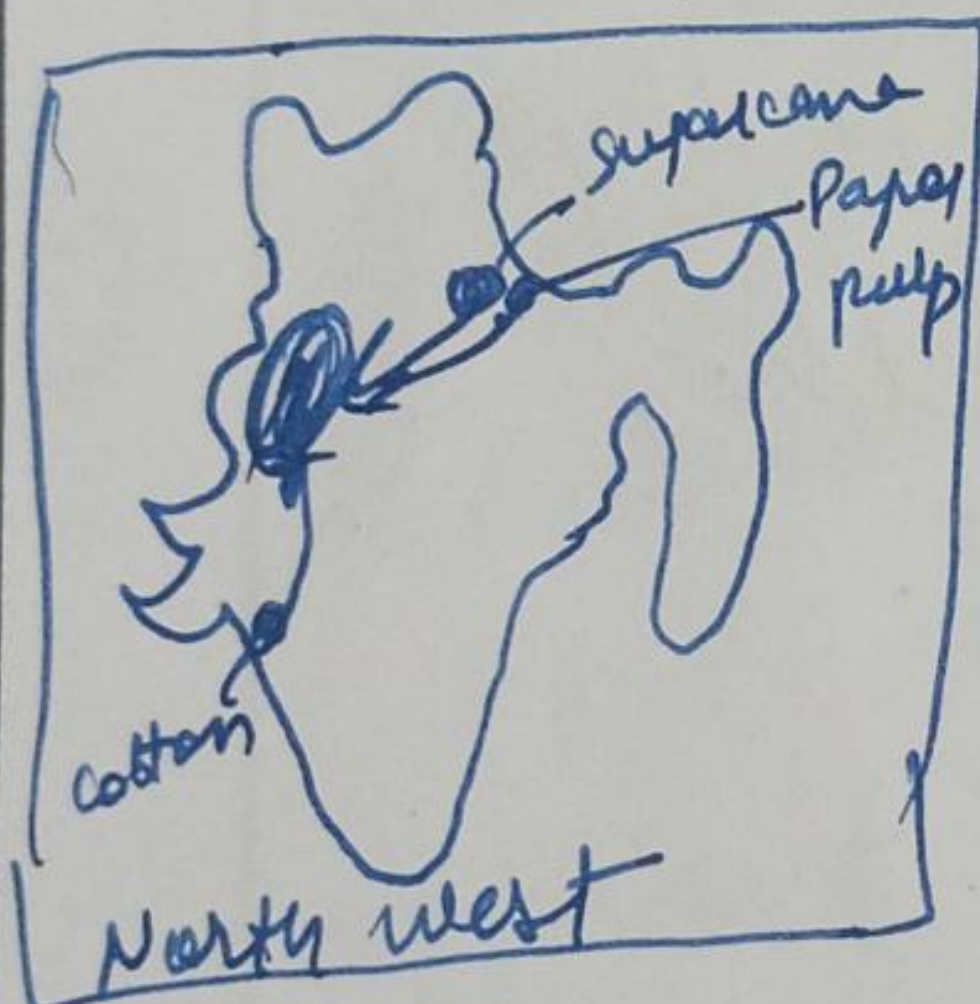
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Q.5)

Agro based food processing industries cater to production of processed food from farm items such as tomato, fruits, vegetables etc.



Food Processing.

Tomato	→	Tomato Sauce
Fruits	→	Jam
Vegetable	→	Pickle
Sugarcane	→	Jappery.

Factors for localization of agro based food processing industries in North west

① Availability of Raw Material

Punjab, Haryana, Western UP are catering for wide range of production of fruits and vegetables.

② Availability of Labour

↳ Labour availability from UP, Rajasthan, Bihar → cheap labours.

③ Presence of Market

↳ Market → Gujarat, Madhya Pradesh, Rajasthan, Delhi, Himachal Pradesh etc.

④ Transport facilities

↳ construction of National Highways connecting different parts.
↳ Availability of kandi part → help in exports.

⑤ Availability of water

↳ Punjab ← Sutlej, Ravi, Beas
↳ Rajasthan → Chambal, Indira Gandhi Canal.

⑥ Availability of technology

↳ Advanced machinery for converting tomato, fruits etc → greater shelf life products.

⑦ Availability of power.

↳ Rawatbhattar Thermal Power Plant → help in providing efficient power.

⑧ Government Policies → PM FME to cater formalization of food processing → helping them to proliferate.

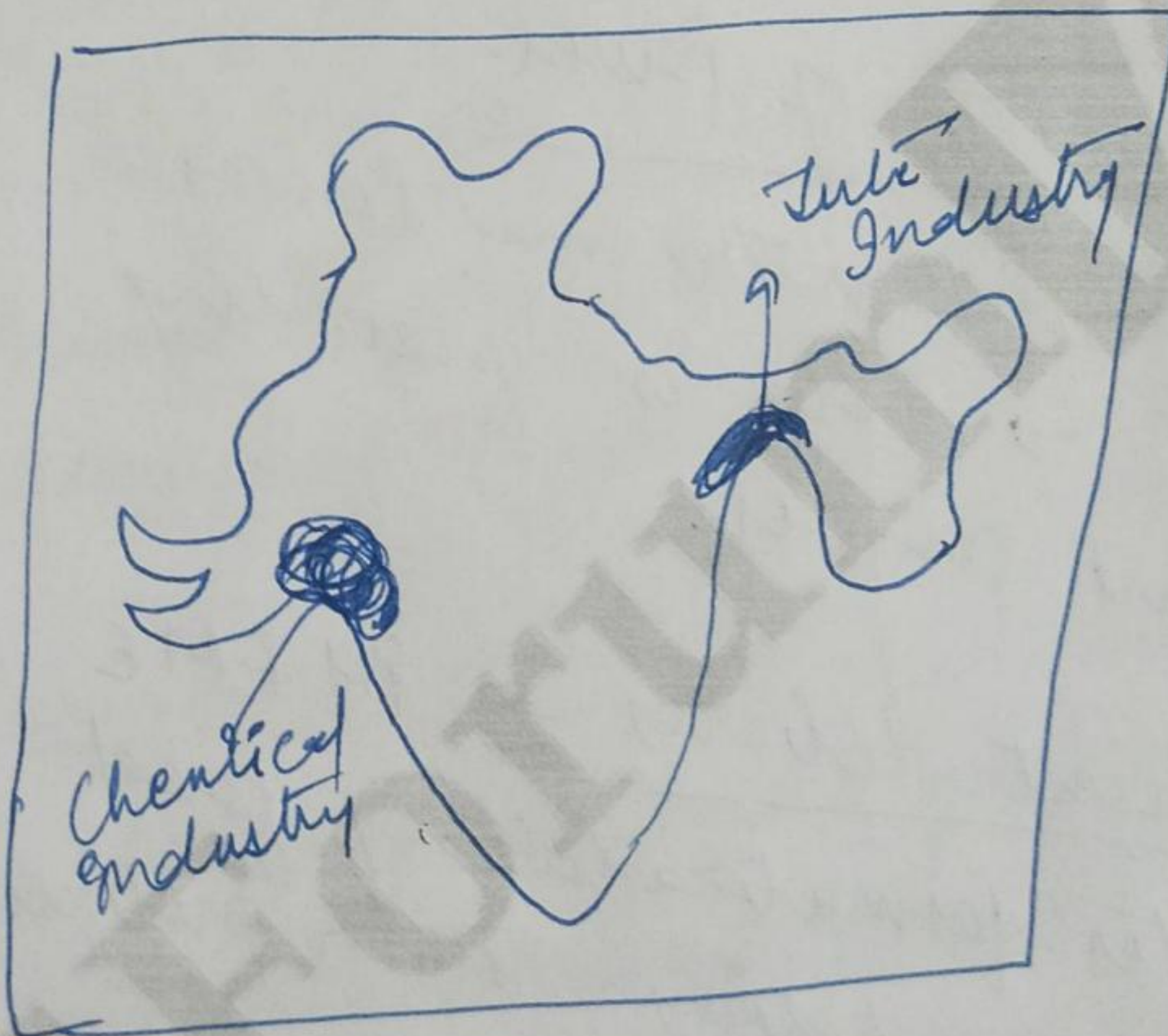
Food processing sector is sunrise industry and India contribute to just 3% of the exports → therefore, its proliferation is the need of the hour.

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Q.6)

Jute mills/Industry is a gross raw material industry and India is the largest producer of Jute. Chemical industries usually depend on cotton availability and presence of oil refineries.



Reason for Jute Mills - Hooghly

- ① Availability of Raw material - Jute is grown in water logged conditions.
 River field Terai → Delta

② Transportation - Jute is heavy and bulky - require cheap transportation.

[ex.] National Waterway 1 → Allahabad to Haldia.

③ Labour Availability → labourers from Bihar, ~~and~~ Odisha etc.

④ Energy → [ex.] Hugli Thermal power plant.

⑤ Proximity to Port [ex.] Kolkata Port
- export in Jute bags - food material.

⑥ Market → WB → largest producer of Rice → Jute bags for Rice.

Concentration of chemical Industries in Gujarat

① Agglomeration with cotton and oil industries - help in promoting economies of scale.

- ② Availability of labour → as cotton is labour intensive → labour flow also cater to chemical industry.
- ③ Transportation - Dense development of market has enabled greater market integration.
- ④ Demand → growing demands of apparel influenced from western country
↳ also peninsula require cotton clothes for year long period → chemical industry is required its production.
- ⑤ Availability of Kandla port in Gujarat help in greater exports.
Government has come up with SFURTI scheme, PM Mitra Parks to make them export oriented which can help them to integrate into global value chains.

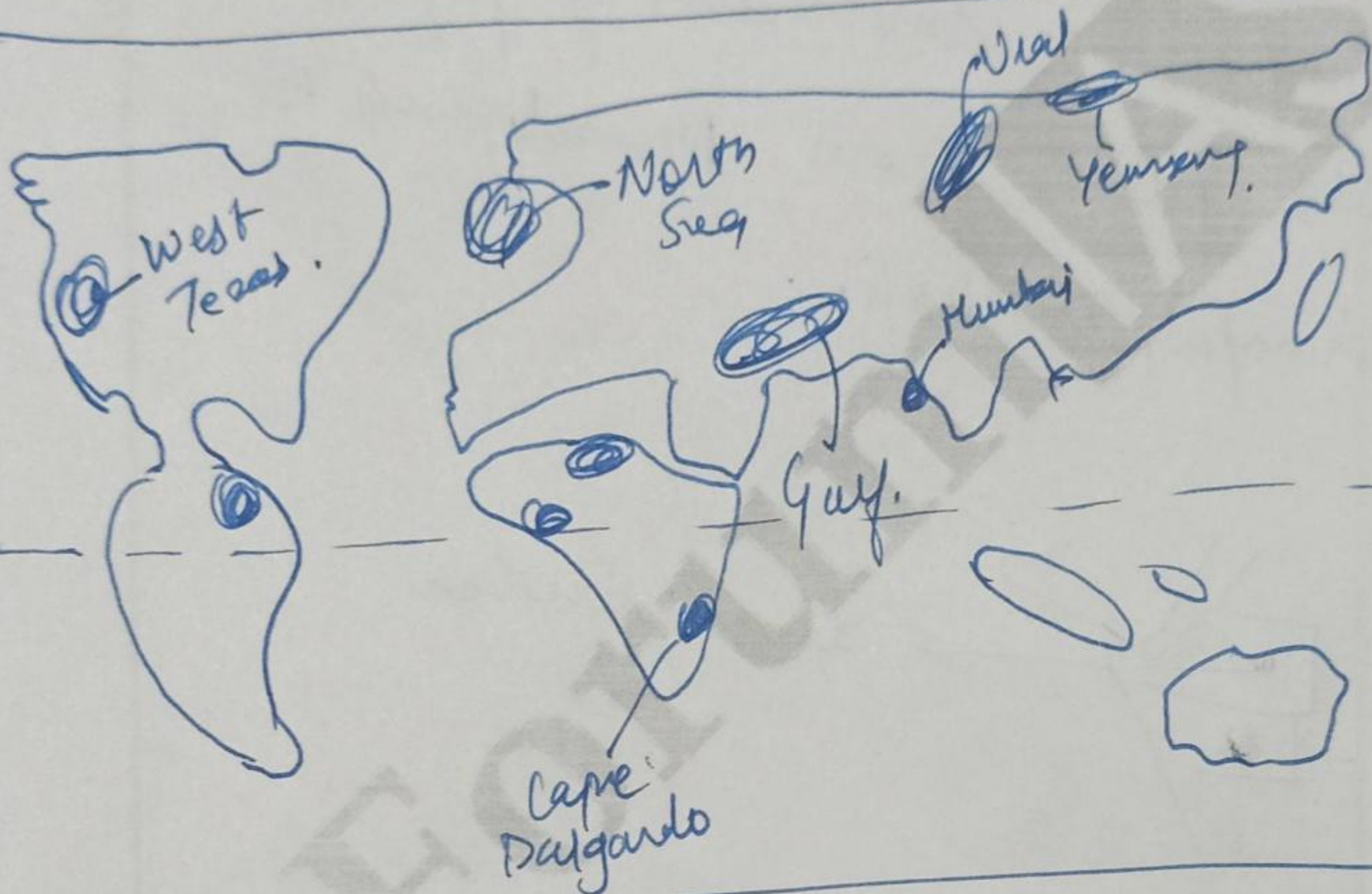
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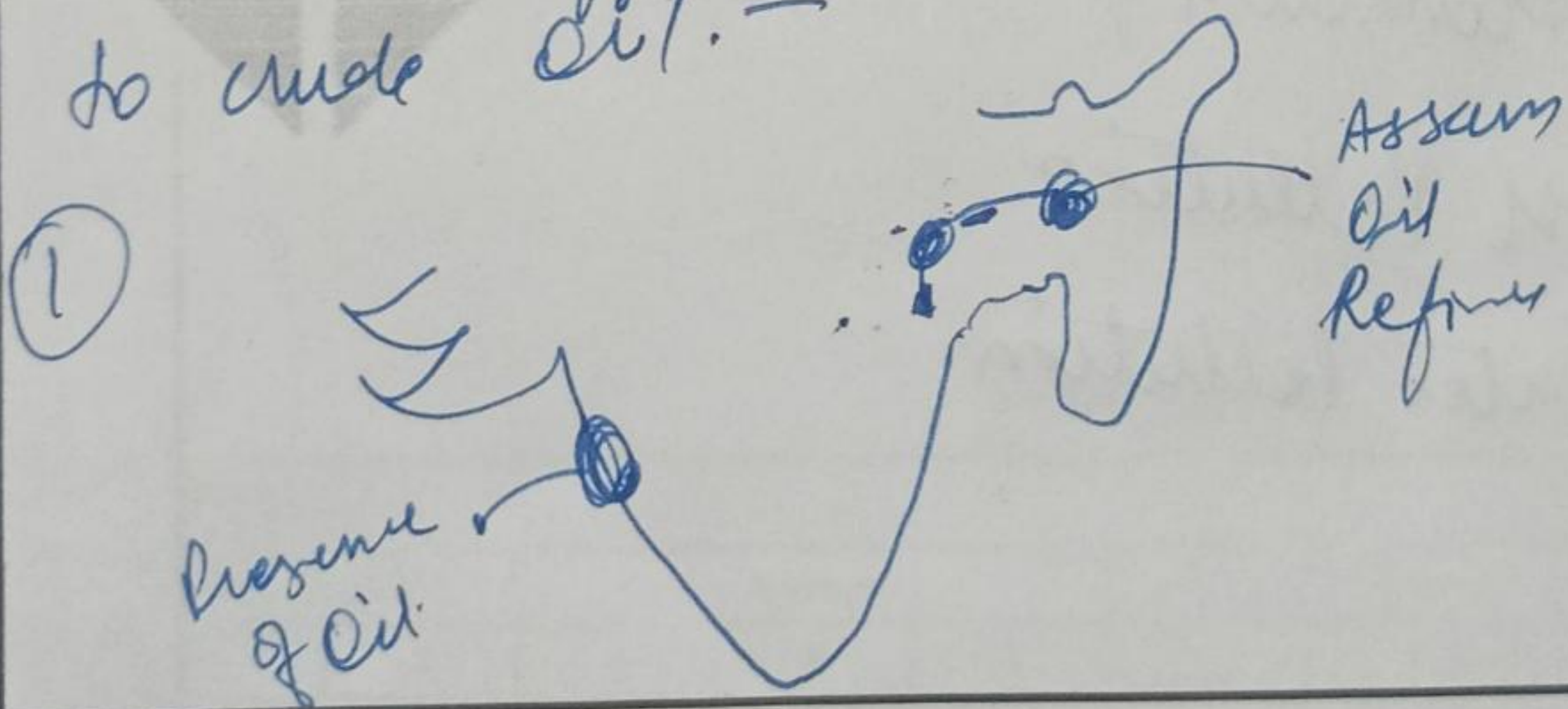
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Q.7)

Petroleum refineries and crude oil are present largest in Middle East countries and they ~~are~~ form basis in petrochemical, automobile etc industry.



Petroleum refineries not located nearer to crude oil:-

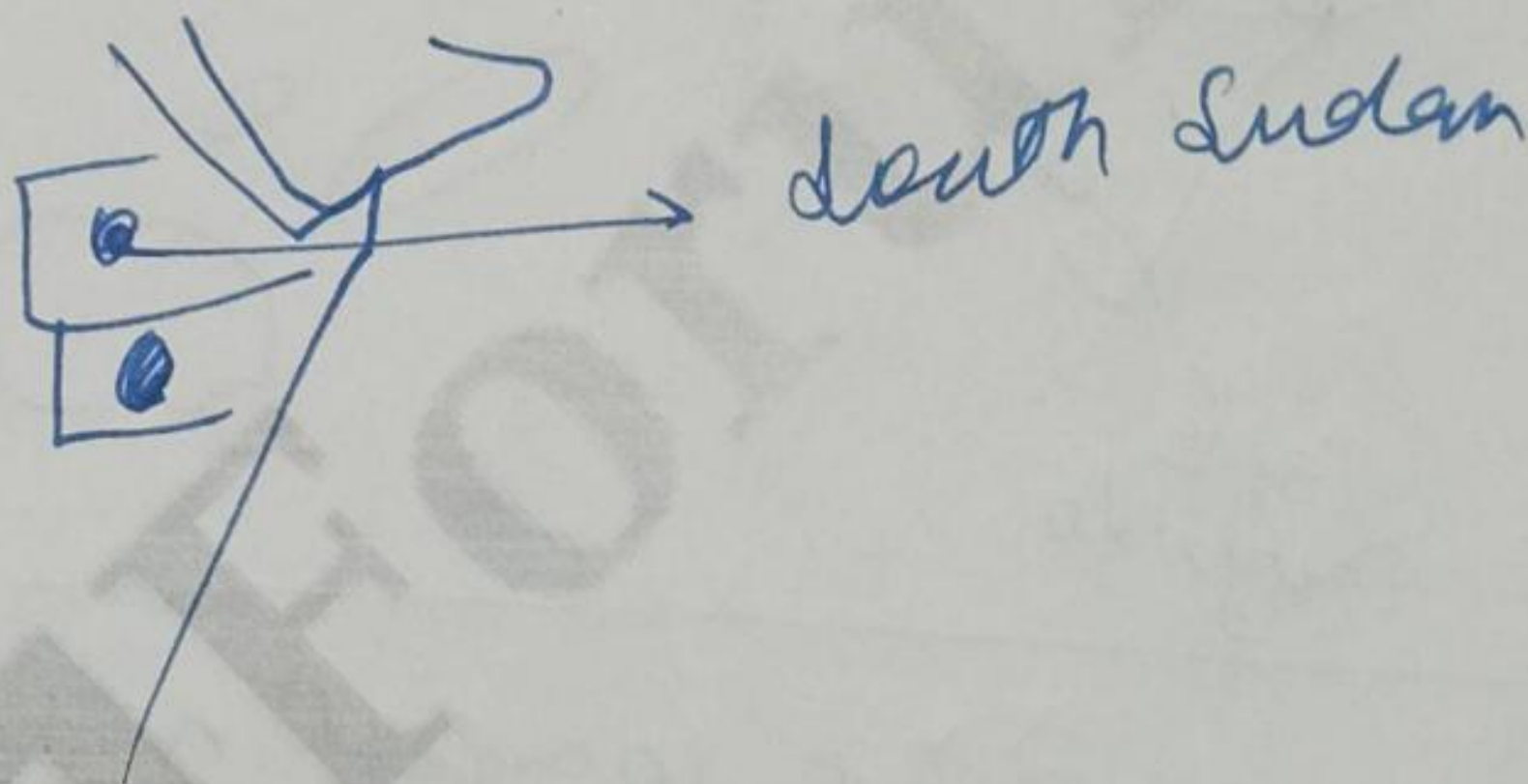


Assam resulted → as refineries were established farther away which hinders their market

↓

Therefore → construction of pipeline took place from Numaligarh to Kamrup to Hogli.

②



③ Environmental factors

↳ Air Pollution

↳ Water Pollution