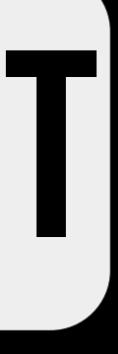


# **CLASS 10TH** SOCAL SCENCE

## **GEOGRAPHY | RESOURCES AND DEVELOPMENT**

Crafted with love

By Digraj Singh Rajput





## Concept

- **Development of resources Classification of soil** Land utilization Land use pattern in India. Need  $\rightarrow$  Planning Soil erosion and soil Planning in India and conservation Land degradation and conservation.



### Land as a Resource

conservation measures.

## **GEOGRAPHY | RESOURCES AND DEVELOPMENT**

## Soil as a resource







## Which of the following pair is correctly matched ?

A.	Alluvial Soil	Gan

Β.	<b>Black Soil</b>	Hima

|--|

D	Laterite Soil	Dese
D.	Laterite Soli	Dese



### ngetic Plain

### alayan Region

### stern Ghats

### ert Area

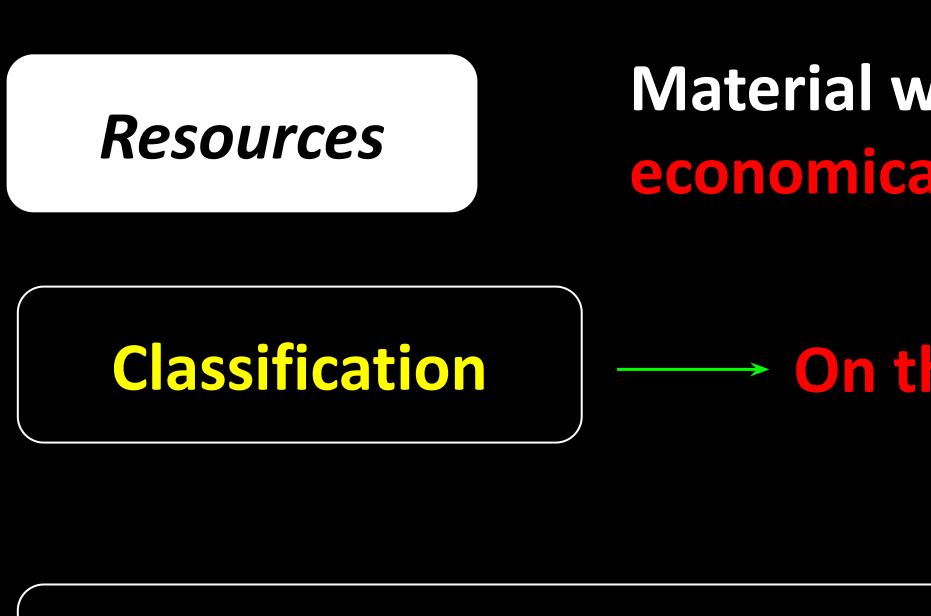
## **GEOGRAPHY | RESOURCES AND DEVELOPMENT**

## **CBSE Board Paper 2023 - Set [32/1/1]**

_	N	<b>ex</b>	
То	P	pe	r







### **Development of Resources**

**Solution:** Earth summit, 1992 gave the concept of Agenda 21. More than 100 heads of states met in Rio de Janeiro in Brazil for addressing urgent problems of environmental protection and socio-economic development at the global level. It aims at achieving global sustainable development through combating environmental damage, poverty, disease by global cooperation.



Material which satisfy our needs, provided it is technologically accessible, economically feasible and culturally acceptable.

**On the basis of - Origin, Exhaustibility, Ownership, Status of development.** 



Depletion, Accumulation in few hands (Rich and Poor) and global ecological crises 

## **GEOGRAPHY** | **RESOURCES AND DEVELOPMENT**

-Vital for human survival but there are some issues

Sustainable development







Resource planning

## How it takes place in India?

Land Resources

### Land use pattern in India

- Permanent pasture
- Variation in net sown area 🤗
- Forest area in the country is far lower than the desired 33 per cent



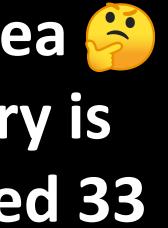
### Resources are unevenly distributed Need?



Conservation of Resources: Technology, Colonialism and need for conservation  $\rightarrow$  Gandhian Idea

India has varied relief features with different uses. (Plain, Plateau and Mountains)

Forests, Land not for cultivation (Barren land, roads, factories etc.) other uncultivated land (Pasture land, under miscellaneous trees culturable wasteland) fallow lands and Net Sown Area



## **GEOGRAPHY | RESOURCES AND DEVELOPMENT**

1. Identification of Resources, 2. Evolving a planning structure to use them, 3. Matching







## Describe the importance of judicious use of resources. OR **Describe the different steps of 'resource planning.**



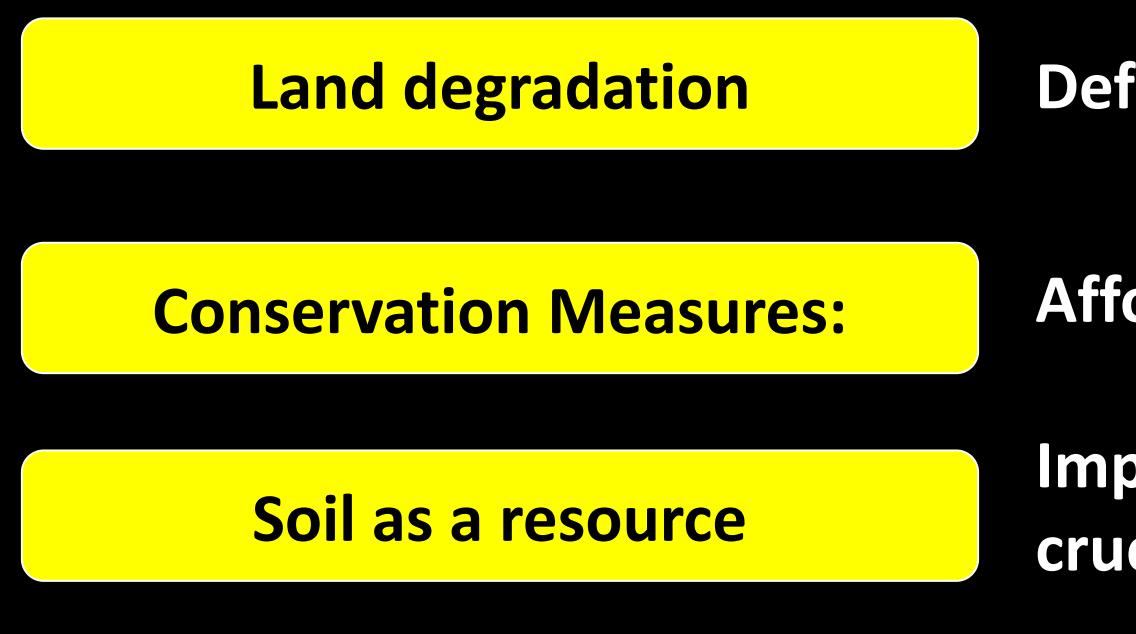
## **GEOGRAPHY | RESOURCES AND DEVELOPMENT**

### **CBSE Board Paper 2020 - Set [32/1/1]**









Causes

Wind, glacier, water (Gullies, sheet erosion), deforestation, overgrazing and deforestation.

**Conservation measures** 



Deforestation, overgrazing, mining, excessive irrigation.

Afforestation, management of grazing land, controlling mining and over irrigation.

Important renewable natural resource, relief, parent rock, climate vegetation plays a very crucial role in soil formation.

Soil erosion and soil conservation (Removal of soil cover and subsequent washing down is described as soil erosion)

Contour ploughing, terrace cultivation, strip cropping, shelter belts and afforestation.









## Mention the main reason for land degradation in states like Jharkhand, Chhattisgarh and Odisha.





**Over irrigation** С.

## D. Mineral processing



CBSE Board Paper 2023 - Set [32/5/1]

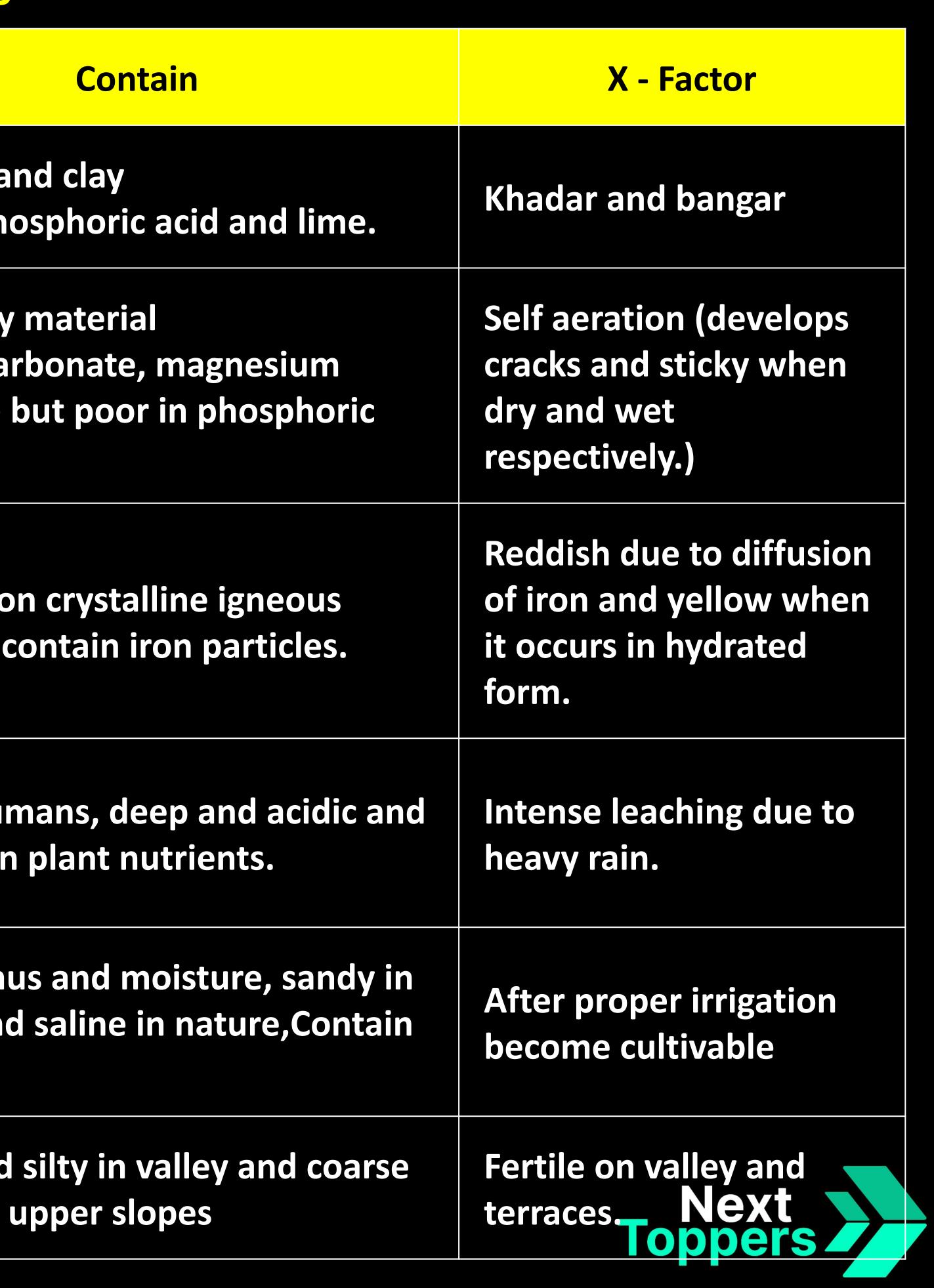






Soil	Basis	Area / State	Crop	
Allu	ıvial	Northern plains (Interplay of Indus, Ganga Brahmaputra)	Paddy, wheat, sugar cane and other cereal	Silt, sand an Potash, pho
Bla	Black Deccan trap (Gujarat, M.P and Maharashtra) Cotton		Fine clayey Calcium car carbonate k content.	
Red and Yellow		Odisha, chhattisgarh and piedmont zone of the Western Ghats.		Develops of rocks and c
Laterite		Hilly areas of karnataka, Kerala, Meghalaya(Tropical Evergreen areas.) Cashew nuts, pineapple cultivation tea and coffee.		Poor in hun deficient in
Arid		d Found in the Western parts of Rainfed crops, Jowar, Rajasthan Bajra, Maize		Lacks humu texture and calcium.
Forest		Hill and mountainous regions (J&K,HP,UK, Sikkim and AP)	Mountain vegetations and forests.	Loamy and grained in u

## Ninja Technique To learn Soils





### Identify the soil with the help of following information. It develops in areas with high temperature. It is the result of intense leaching due to heavy rain.

- Humus content is low.

Arid soil

**A**.

### Laterite soil В.

Yellow soil 

### **Black soil** D.



## **GEOGRAPHY** | **RESOURCES AND DEVELOPMENT**

### **CBSE Board Paper 2024 - Set [32/1/3]**







**Resource : Everything available in our environment** which can be used to satisfy our needs, provided it is technologically accessible, economically feasible and culturally acceptable can be termed as 'Resource'.

**Sustainable development : It means development** should take place without damaging the environment, and development in the present should not compromise with the needs of the future generations.

Fallow land : Fallow land refers to bare land in which crops are not cultivated for five years or more and the Current fallow land is land that is left uncultivated for one or less than one agricultural year.

## **GEOGRAPHY** | **RESOURCES** AND **DEVELOPMENT**

**Agenda 21 : Agenda 21 It is the declaration signed by world** leaders in 1992 at the United Nations Conference on **Environment and Development (UNCED), which took place at** Rio de Janeiro, Brazil. It aims at achieving global sustainable development through combating environmental damage, poverty, disease by global cooperation.

**Culturable wasteland : Land not cultivated during the last five** years or more in succession including the current year for some reason or the other.

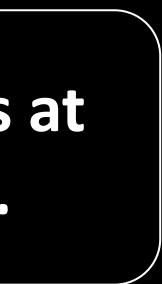
**Net Sown Area:** Net Sown Area is the area sown with crops at least once in an agricultural year and counted only once.













**Gross cropped Area**: The gross cropped area (GCA) is the total area sown once or multiple times in a given year. When a crop is sown twice on the same piece of land, the area is counted twice, this includes net sown area and area sown twice.

**Red and Yellow soil : These soils are generally found** in the Western Ghats, Odisha and Chhattisgarh. Red soil gets its colour from the iron found in its composition in a crystallized form. The soil takes on a yellow colour when it is hydrated.

**Leaching : Laterite soil develops due to the leaching** process. It is a process, it is the process under which the soil nutrients get washed off due to heavy rain and temperature.

### **Key Words**

## **GEOGRAPHY | RESOURCES AND DEVELOPMENT**

**Gullies :** Running water cuts through the clayey soils and makes deep channels/ gullies. This type of pollution is responsible for destroying the fertility of the land and making it bad land. In Chambal basin such lands are called Ravines.

Strip cropping: It is type of cultivation in which different crops are sown in alternate strips to prevent soil erosion. These strips breaks up the force of the wind and wind erosion can also be prevented.

**Shelterbelts:** Shelter belts are rows of trees planted to protect an area, especially a field of crops, from wind and bad weather conditions. Shelter belts have contributed significantly to stabilisation of sand dunes in deserts.

**Sheet Erosion : Water flows as a sheet over large areas** down a slope washing away all the topsoil. This process is known as sheet erosion.





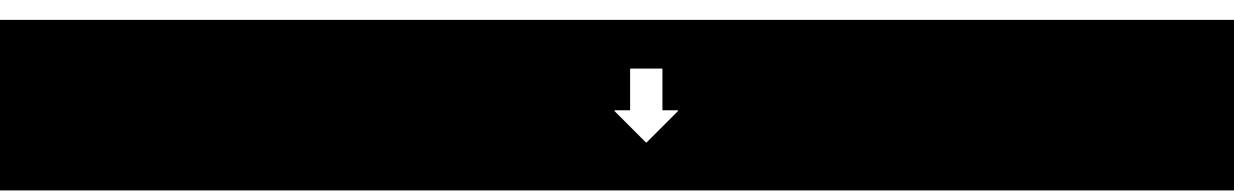


resources.

- Depletion of resources for satisfying the greed of few individuals.
- Accumulation of resources in few hands, which in turn has divided the society into two
  - segments-rich and poor.
- Indiscriminate exploitation of resources has led to global ecological crises such as global warming, ozone layer depletion, environmental pollution and land degradation.



### Mention three problems that are associated with the indiscriminate use of



The following three problems are the result of indiscriminate use of resources:







## Discuss the purpose of Rio de Janeiro Earth Summit and what was its outcome.

- The first United Nations Conference on Environment and Development (UNCED) was held in Rio de Janeiro, Brazil in 1992 to formulate an Agenda to promote sustainable development.
  - This convention endorsed the Global Forest Principles and adopted 'Agenda 21' for achieving sustainable development in the 21st century.
- The objectives of Agenda 21 are the elimination of poverty, hunger, sickness and illiteracy worldwide while halting the deterioration of sustain life.

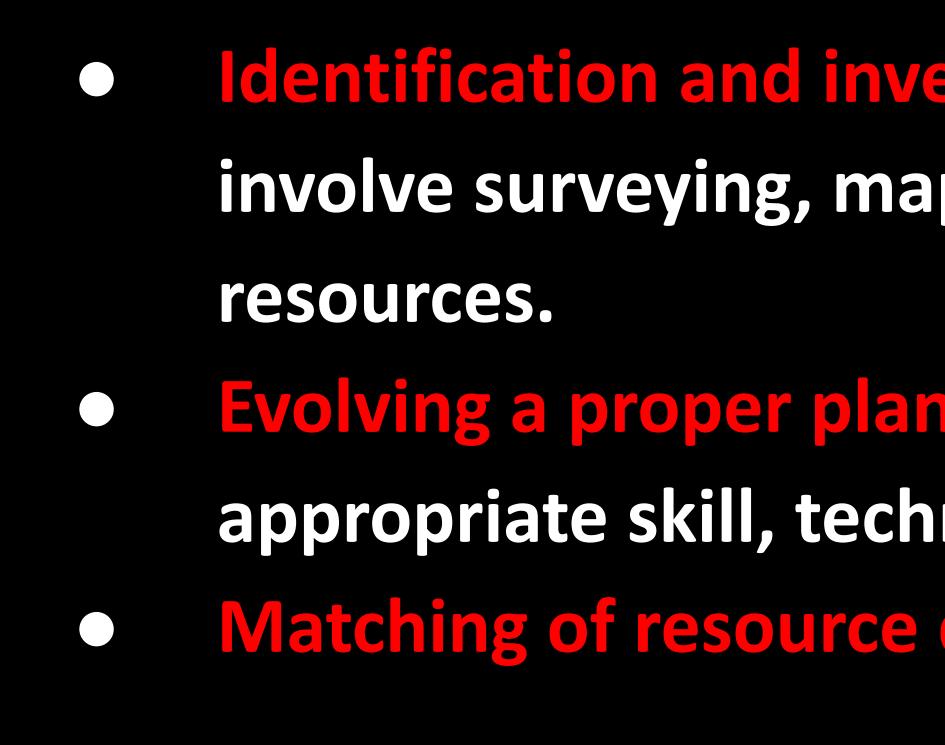




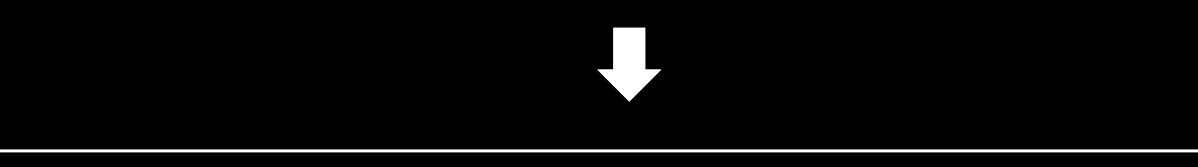




### "Resource planning is a complex process" Justify the statement with arguments.







- Identification and inventory of resources across the regions of the country, which involve surveying, mapping and measuring the quality as well as quantity of the
- Evolving a proper planning structure for the development of the resources by using appropriate skill, technology and institutional set up. Matching of resource development plans with overall national development plans.





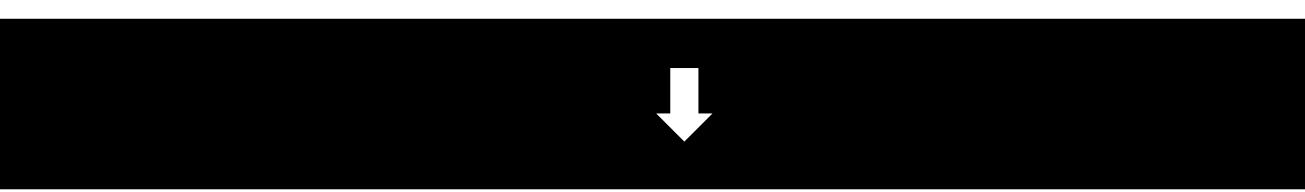


### Suggest any six measures to solve the problem of land degradation.

## The following measures can help to solve the problem of land degradation

- **Planting of shelterbelts.**





## Afforestation over deforested areas.

Proper management of grazing on permanent pastures. In areas where desertification has taken place, growing thorny bushes. **Proper discharge and disposal of industrial effluents after treatment.** 

**Control on mining activities.** 







containing minerals.



### Trace the features of alluvial soil with reference to its formation, area, classification and

Formation : Alluvial soil is made-up of silt, sand and clay. It is deposited by three important Himalayan river systems the Indus, the Ganga and the Brahmaputra. It is bigger and coarser in the upper reaches of the river and becomes finer as the river flows down.

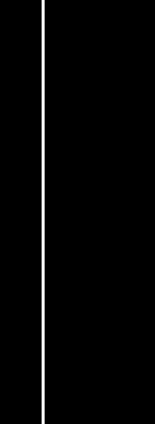
**Distribution/Area :** This soil is prevalent in the river valleys of the Northern plains (Indus, Ganga, Brahmaputra), strips in Gujarat and Rajasthan, as well as in the Eastern coastal plains in the deltas of rivers of the Peninsular plateau (Mahanadi, Krishna, Kaveri).

• Classification : According to their age, alluvial soils can be classified as (Bangar) old alluvial and Khadar (new alluvial). Khadar has higher concentration of kankar and contains more fine particles than Bangar.

Minerals : This soil is rich in nutrients like potash, phosphoric acid and lime, which is suitable for growing paddy, wheat, sugarcane and other cereal and pulse crops.

## **GEOGRAPHY** | **RESOURCES AND DEVELOPMENT**





Next



### What steps can be taken to control soil erosion in the hilly areas?

- Following steps should be taken to control soil erosion in the hilly areas **Afforestation - This is done by planting trees.** 
  - Terrace farming and contour ploughing this is done across the hill slopes.
  - Restricted grazing of animals and they should be moved over different pastures so as to
    - avoid erosion of soil.
  - Any other relevant point.











## OR

How is cement industry responsible for land degradation?

## OR Describe any three main features of 'Black soil' found in India.

How are mining activities responsible for land degradation in Jharkhand? OR

## **PREVIOUS YEAR QUESTIONS 2019**



- Describe any three main features of 'Alluvial soil' found in India.

How is overgrazing responsible for land degradation in Gujarat?

## **GEOGRAPHY | RESOURCES AND DEVELOPMENT**

### **CBSE Board Paper 2019 - Set [32/1/1]**

### **CBSE Board Paper 2019 - Set [32/2/1]**

### **CBSE Board Paper 2019 - Set [32/3/1]**











Which type of soil is most suitable for growing the crop of cashew nut? OR Which type of soil in India is most widespread and important?

Highlight the reason for land being known as an utmost important natural resource. OR Highlight the importance of contour ploughing.

## **PREVIOUS YEAR QUESTIONS 2019**

"Resource planning is a complex process." Justify the statement with arguments.

## **GEOGRAPHY** | **RESOURCES AND DEVELOPMENT**

**CBSE Board Paper 2019 - Set [32/3/1]** 

## **CBSE Board Paper 2019 - Set [32/4/1]**

**CBSE Board Paper 2019 - Set [32/5/1]** 









## **Type of Resources : On the basis of Ownership**

Resource	Ex
A ?	Grazi
	etc.
B ?	Cultiv
	farme

Read the following features of a soil and name the related soil : (a) Develops in high rainfall area (b) Intense leaching process takes place. (c) Humus content is low.

## **PREVIOUS YEAR QUESTIONS 2020**

Fill in the blanks of the following table with suitable information.

xamples / Type ing grounds, ponds vated land ot

## **GEOGRAPHY | RESOURCES AND DEVELOPMENT**

### **CBSE Board Paper 2020 - Set [32/2/1]**

**CBSE Board Paper 2020 - Set [32/3/1]** 









## Describe the importance of an equitable distribution of resources in the society. OR Describe the need of resources for human survival.

Give one example of the main commercial crop cultivable in laterite soil. OR Give one example of the Community Owned Resources.

## **PREVIOUS YEAR QUESTIONS 2020**

## **GEOGRAPHY** | **RESOURCES** AND **DEVELOPMENT**

### **CBSE Board Paper 2020 - Set [32/4/1]**

### **CBSE Board Paper 2020 - Set [32/5/1]**









(a) Maharashtra (b) Punjab (c) Haryana (d) Uttar Pradesh

Identify the soil which ranges from red to brown in colour and saline in nature. (a) Red soil (b) Arid soil (c) Alluvial soil (d) Laterite soil

## **PREVIOUS YEAR QUESTIONS 2022**

### In which one of the following states is overgrazing the main reason for land degradation?

## **GEOGRAPHY** | **RESOURCES AND DEVELOPMENT**

**CBSE Board Paper 2022 - Set [32/1/1]** 

**CBSE Board Paper 2022 - Set [32/1/1]** 









Which one of the following forces leads to maximum soil erosion in plains? (a) Wind (b) Glacier (c) Running water (d) Earthquake

Deforestation due to mining has caused severe land degradation in which one of the following states? (a) Odisha (b) Tamil Nadu (c) Kerala (d) Gujarat

## **PREVIOUS YEAR QUESTIONS 2022**



## **GEOGRAPHY | RESOURCES AND DEVELOPMENT**

### **CBSE Board Paper 2022 - Set [32/1/1]**

## **CBSE Board Paper 2022 - Set [32/1/1]**









## Which one of the following soils develops in an area with high temperature and heavy rainfall? (a) Red and Yellow (b) Alluvial (c) Black (d) Laterite

## Which of the following is correctly matched? (a) Alluvial Soil - Consist of sand and silt (b) Black Soil - Salt content is high (c) Arid Soil - Diffusion of iron in crystalline (d) Laterite Soil - Made up of Lava flows

## **PREVIOUS YEAR QUESTIONS 2023**



## **GEOGRAPHY** | **RESOURCES AND DEVELOPMENT**

**CBSE Board Paper 2023 - Set [32/2/1]** 

### **CBSE Board Paper 2023 - Set [32/4/1]**









## Which of the following pair is correctly matched? (A) Alluvial Soil - Western Rajasthan (B) Black Soil - Northern Plain (C) Arid Soil - Deccan Plateau (D) Laterite Soil - Western Ghats

## **PREVIOUS YEAR QUESTIONS 2023**



## **GEOGRAPHY | RESOURCES AND DEVELOPMENT**

### **CBSE Board Paper 2023 - Set [32/6/1]**









Read the following characteristics of a soil and identify the soil from the given options. It is widely spread and important soil. Northern plains are made of it. It consists of sand, silt and clay. **Options:** (A) Yellow soil (B) Black soil (C) Laterite soil

(D) Alluvial soil

## **PREVIOUS YEAR QUESTIONS 2024**

## **GEOGRAPHY** | **RESOURCES AND DEVELOPMENT**

**CBSE Board Paper 2024 - Set [32/2/2]** 









### Match the column - 1 with column - 2 and choose the correct option : Column - 1 Column - 2 (Resources) (Example) (I) Biological 1. Coal (II) Renewable 2. Wildlife (III) Non-renewable 3. Solar Energy **Options :** (a) 1 3 2 (b) 32 1 (c) 2 3 1 (d) 2 3 1

## **PREVIOUS YEAR QUESTIONS 2024**



## **GEOGRAPHY | RESOURCES AND DEVELOPMENT**

**CBSE Board Paper 2024 - Set [32/4/1]** 









### Read the given source and answer the questions that follow: **Conservation of Resources**

At the international level, the Club of Rome advocated resource conservation for the first time in a more systematic way in 1968. Subsequently, in 1974, Gandhian philosophy was once again presented by Schumacher in his book Small is Beautiful. The seminal contribution with respect to resource conservation at the global level was made by the Brundtland Commission Report, 1987. This report introduced the concept of 'Sustainable Development and advocated it as a means for resource conservation, which was subsequently published in a book entitled Our Common Future. Another significant contribution was made at the Earth Summit at Rio de Janeiro, Brazil in 1992. (1) Explain the meaning of sustainable development. (2) In which international conference was 'Agenda-21' accepted? (3) Explain any two outcomes of the Summit.



## **GEOGRAPHY | RESOURCES AND DEVELOPMENT**

**CBSE Board Paper 2024 - Set [32/5/2]** 







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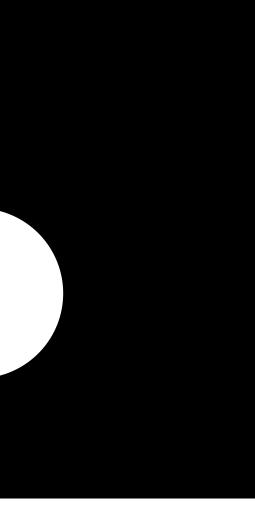




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