

## Topic: Droughts as a Silent Natural Disaster

### Outline :-

#### A: Introduction:

- 1: Climate change
- 2: Causes, impacts and way forward
- 3: Thesis statement: Droughts are global warming induced natural disasters which are deepened by human intervention, yet risk associated with it can be mitigated by planning and preparedness.

#### B: Causes of Droughts:

- 1: Global warming and natural disasters
  - a: Due to global warming, summer season is extended.
- 2: Deforestation around the world
  - a: It has reduced the occurrence of transpiration leading to decline in rainfall.
- 3: Unplanned urbanization
  - a: Construction of houses and buildings on river bed disrupted the natural flow of rivers.

### C: Impacts of Droughts as a Natural Disaster:

1: Reduced production of crops

a: This reduced production is leading to food insecurity.

2: Decline in underground water levels

a: Droughts led to low underground water levels causing water scarcity.

3: Decreased rainfall

a: Disruption in natural process of seasons; shifting agricultural months.

### D: Steps to Decrease the Risk of Droughts:

1: Water reservoirs

a: Construction of dams and canals.

2: Planned urbanization

a: Town planning for sustainable development.

3: Reforestation

a: Miyawaki; Japanese concept of building dense forests in cities.

4: Improved disaster management system

a: To timely mitigate the risk and long-term impacts.

### E: Conclusion

"We are the first generation to feel the effect of climate change and last generation who can do something about it," says Barack Obama. In past few decades, climate change has effected the natural phenomena. This effect is leading to silent natural disasters. Among various natural disasters, droughts have long-term, gradual and ~~silent effects on nature~~. World is facing this due to ~~unsystematic~~ human intervention. Global warming is one of the major ~~cause~~ of droughts. This is intensified by deforestation <sup>along with</sup> ~~with~~ unplanned urbanization. It has effected the crop production around the world which led to food insecurity in various regions. Water levels underground have declined causing water scarcity. ~~Furthermore, rain fall has decreased~~ due to droughts. However, risk associated with droughts can be managed. It can be improved by construction of water reservoirs, by planned urbanization and by reforestation. Enhancing the disaster management system can reduce the risk as well. In conclusion, droughts are global warming induced natural

disasters which are deepened by human intervention, yet risk associated with it can be mitigated by planning and preparedness.

Global warming is primary cause of droughts in <sup>the</sup> world. Global warming is a phenomenon of increased temperature of Earth. It has intensified the seasons. Currently, the longest season of year records to be summers. Due to this, world has experienced extreme conditions. This extended period has resulted in ~~droughts~~ decreased water levels as process of evaporation is increased. This has caused droughts as natural disaster. So, droughts are caused by global warming.

Furthermore, droughts are also caused by deforestation. Forests are integral part of nature. It controls the temperature and cause cooling affect in atmosphere. Deforestation led to reduction in phenomenon of transpiration. Transpiration is essential for rainfall and continuous water cycle. The disruption in water cycle, due to deforestation decreased rainfall. Ultimately, decrease in rainfall

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escalated droughts. Hence, deforestation

are a cause of drought.

Moreover, unplanned urbanization is

another cause of droughts. People tend to

construct houses and buildings on river beds.

This has altered the natural river flow

and natural water cycle. Unplanned urbanization

development leads to vast areas covered

with concrete. This prevents the absorption

of water from rainfall into the ground.

It has also led to reduced green spaces.

As urbanization requires clearing of green

places. This also results in increased urban

temperatures. This is because, heat is not

absorbed into soil, raising the temperature.

It creates a drier atmosphere and eventually

causing droughts. Therefore, unplanned urbanization

causes droughts.