

① Development of Mountain areas over the years is upsetting the ecological balance. Suggest appropriate measures to sustain the ecological balance.

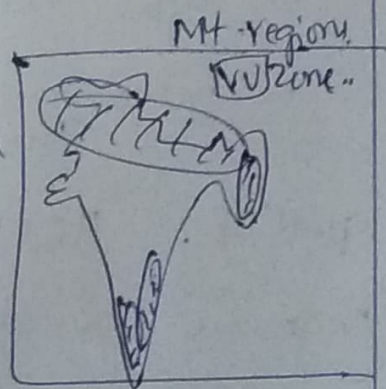
Ecological balance is state of dynamic equilibrium where genetic, species and ecosystem diversity remains stable.

Mountain development

Infrastructure in hilly regions, and unstable terrains, widening roadways, clearing forest areas are some of development. These are reasoned to provide a balance measures to people living and promote growth.

Climate change and its effects

Monsoon rainfall in India this year is 8% more than usual at this point of time.



Factors

There are several factors responsible. Recent ~~report~~ study, shows Arctic amplification

Late
Ecological balance
Mt. dev
Effect
Monsoon pattern
they forward.

plays a role in increasing monsoon rainfall in India.

Effects

(1) effects → Loss (death), landslides, cloud burst, floods in H.P., uttarakhand, and mountainous region.

e.g. Recent H.P. floods, the death toll is increasing day by day.

(2) effects → Schools and transport facilities immediately was put out leading to loss of productive hours.

cattle and saplings were ~~damaged~~ washed away affecting livelihood.

75% of monsoon rainfall in 4 months ~~is~~ with diverse ^{climatic} zone, makes some regions more prone to climatic change.

Recent H.P. Dpt of Emiro. has released report citing mountainous regions.

are more prone to floods and climate change,
changing monsoon pattern.

Monsoon pattern is changing currently.

Early warning measures have been provided.
eg: IMD provides weekly, 3-hourly, fortnight
weather forecast

Challenges

- No early warning mechanism for

floods

Way forward

⇒ Early warning mechanism for
floods.

⇒ Zonation of mountain regions → to predict the
vulnerable areas for awareness and
rehabilitation.

⇒ Scientific advice has to be featured
in to for sustainable development of mountainous
region in order to comply with International
year of sustainable development of mountains
2022 - announced by UNGA