

Q: What is desertification? Give reasons for rise in desertification? What solutions can India adopt to fulfil its target of achieving LDN, and UNCCD by 2030?

Ans → Desertification refers to persistent degradation of drylands (arid & semi-arid) ecosystems by climatic variations and anthropogenic activities. Close to one third of India's total land area, 29.32% underwent land degradation in 2011-13

Rise in desertification could be due to natural or man-made factors :-

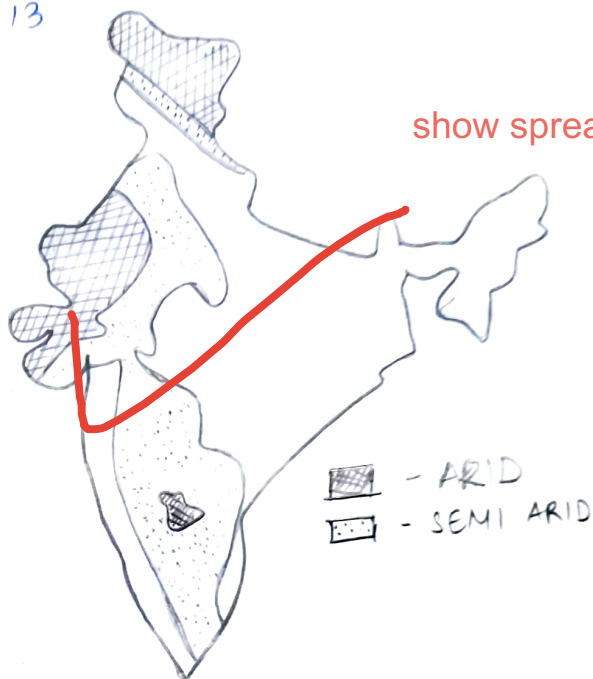
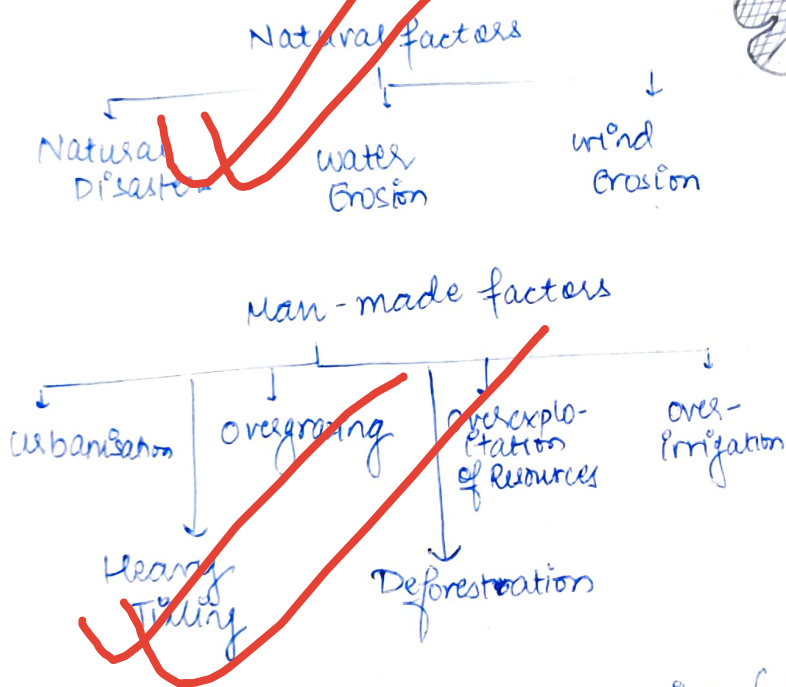


Fig: Arid & Semi Arid Land in India

Land degradation neutrality (LDN) under UNCCD

LDN is defined as "A state whereby the amount and quality of land resources, necessary to support ecosystem functions and services and enhance food security, remain stable or increase within specified temporal and spatial scales and ecosystems". India wishes to achieve LDN, by 2030. India also ~~is~~ SDG 15.3 by 2030 which is about combating desertification and restoring degraded land and soil

very good, just keep it short and in your own part words, not bookish

Solutions India could adopt for achieving LDN by 2030

- ① Afforestation and protection of vegetation cover that would help to prevent soil erosion mention NDC targets
- ② Increasing the forest cover would mean creation of carbon sink which would help combat climate change and in turn would control desertification
- ③ Taking measures to convert wastelands into ~~green~~ green ecosystem hubs.
- ④ Promoting sustainable agriculture to prevent agricultural water stress mention some schemes of govt like PMSY, Soil Health Card, integrated watershed management, mission for sustainable agriculture under NAPCC 2008
- ⑤ using appropriate technology for water management
- ⑥ giving local communities the capacity to prevent desertification and to manage dryland resources effectively
- ⑦ creating employment opportunities outside drylands.

India being a signatory to United Nations Convention to combat Desertification (UNCCD) has pledged to combat desertification. The UNCCD is a convention to mitigate effects of droughts and combat desertification. Continuous increase in the rate of desertification stands as a huge challenge in front of India as well as the rest of the world. Ending desertification is a priority and should be carried out by ~~people &~~ governments worldwide.

do mention about food security in conclusion

overall, very good answer,
marks 4.5/10