

15/12/2023

UPSC

Answer Questions in NOT MORE THAN the Word Limit specified for each in the Parenthesis.
(Specimen Answer Booklet - For Practice Purpose Only)

- ① Nuclear power development must become a Major element in India's climate strategy. Analysis (250W)

Nuclear power was the Cleanest Renewable energy that helps to heal the climate from hazardous pollutants.

India's position in nuclear power

① India was least working in terms of nuclear power. It only have 7 major nuclear power plants.

Rather, India was much efficient in other Renewable energy forms like Solar, wind etc.

② It only produces 1% of world's Nuclear energy. Whereas USA was the highest Producer of Nuclear power.

Need for nuclear power in India

① Helps in achieving SDG goals and net zero emissions by 2070.

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② cleanest form of energy, as it releases water & (H_2O) as output

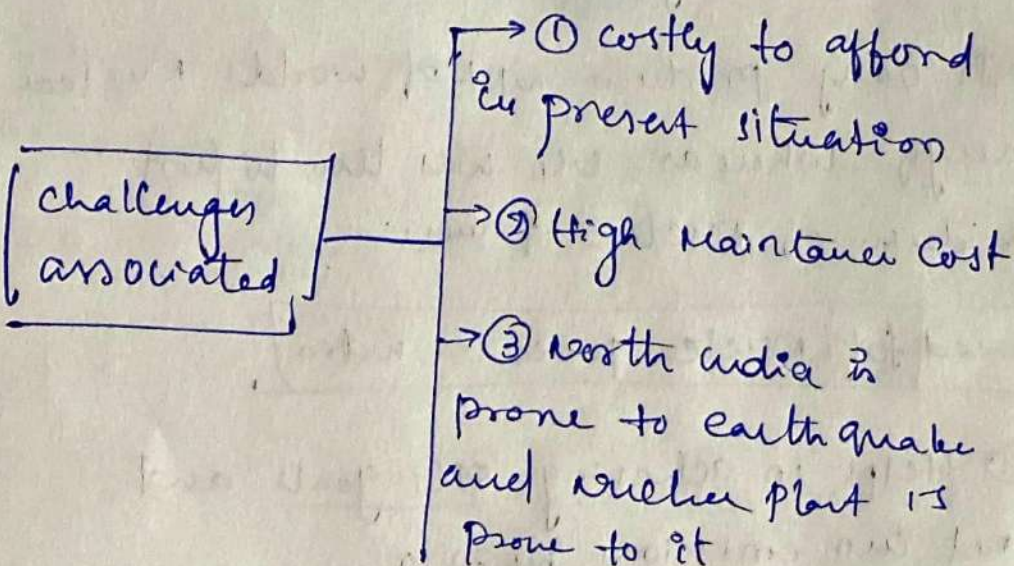
③ To survive in the current world race

④ Increasing cost of metals and other Raw Materials

ex: Semiconductors

⑤ prevent adverse conditions may not be suitable for other forms in future

ex: Heavy Rain & sunblockage → Solar energy down
dry and no air flow condition → no hydro
and wind power
etc.



- ④ present climatic conditions may not be favorable.
- ⑤ No skilled professional / low skilled professional.
- ⑥ low Research and development on nuclear energy field

But with the effective initiations ~~for~~ this can be one of the major energy form in india

① Budget allocation for the Nuclear power projects.

② Improve Research and development including skill development

③ Research on Cost effective work.

④ Identify the locations for placing the plants.

indias challenges towards net zero are high but our country is trying to achieve it with major initiations and willingness.