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Q1

Alternative technologies for a climate change resilient India.

UPSC Civil Services Mains 2018 · Essay · 125 marks · Philosophical and ethical quotes

Philosophical and ethical quotes

Core demand of the question

- **Stake:** India needs technologies that keep a livelihood when the climate has already shifted - not a gadget fair
- **One stand:** alternative is what the last person can use and repair; resilience is a system, not a slogan
- Move through farm, water, energy, coast/city. Keep one honest counter
- Close on a boring machine that still works in a bad year

Revision summary

Not a full essay - a map.

- **Open with a late monsoon and a pump. Stand:** usable, mendable, public.
- **Headings:** farm, water/energy, city, counter.

Peg a solar/irrigation scheme, not a brochure. Close on repair.

Note

This is a map, not the full 1,000-1,200 word essay.

Anecdote

A farmer in Bundelkhand keeps a diesel pump and a rumour of solar. The monsoon is late again. 'Alternative technology' is not a pavilion in Delhi. It is whether the field drinks next week without breaking the household.

One stand

- **Climate-resilient means a buffer:** seed, water, power, a house that does not wash away. Alternative means a path that is not only more coal. Write use, repair, a public grid.

Heading map**What the line is asking**

- **Alternative:** solar, a drip, a millet, a cooler roof - not only a new coal plant.
- **Climate change resilient India:** heat, flood, a failed monsoon, a coast.
- **Technology as a social object:** who owns it, who mends it.

Farm

- Seed, a weather SMS, a solar pump that is not a new debt trap.
- Crop insurance as a cousin of technology - a file that pays.

Water / energy

- Micro-irrigation, a recharge well, a rooftop that is actually net-metered.
- **Storage:** the missing brick in 'renewable India'.

Coast / city

- A mangrove, a drainage that was not concreted shut, a heat-action plan.

The counter

A solar panel on a poor roof with a loan is not resilience; it is a new EMI. And 'traditional' is not always kind (a floodplain hut). Technology without a right to repair and a public science is a catalogue.

Last paragraph

- **Close:** one machine the last person can mend. Expand - this is only the map.

Facts & figures**Schumacher**

Intermediate technology - one nod: tools people can own.

Gandhi

Production by the masses - a pump that does not exile the village.

NDC / NAPCC

India's climate file - peg once, then the field.

PM-KUSUM / drip

Solar and water as farm tools - check the EMI.

Heat action / CRZ

City and coast as technology of rules, not only gadgets.

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