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- ① Evaluate the performance of the Dam safety Act in India. Identify the loopholes in the Act, if any and provide way to overcome the challenges arising out of the loopholes (250w)

Ans) Dam safety Act of 2021 is an act introduced for preventing from dam failure related to disasters.

Positive performance of DSA

Various features of dam safety Act i.e.

- ① National committee on dam safety (NCDS)
- ② National Dam Safety Authority (NDSA)
- ③ State Dam Safety Organization (SDSO)
- ④ State Dam Safety Committee (SDSC) etc.

The above mentioned bodies was organised for overseeing, regulated the policies of Dam safety Act in central and state level respectively.

- Create awareness among vulnerable climate zone of people.

Eg:- Himalayan area, ~~sit~~ flood in sikkim etc.

Challenges in DSA implementation

Transparency Concerns

Dam safety should be a public function. Transparency is impeded when govt. employees and project engineers dominate national and state level bodies.

Risk Assessment

Inadequate risk assessment is also challenge DSA.

Repercussions

- climate change
- snowball effects
- delayed impacts
- Aging infrastructure

Loophole of DSA

Proper work on the following regions.

- ① comprehensive Risk Assessment.
- ② Hazard profiling Issues.
Hazard risk is influenced by climate change, urbanization, water usage patterns etc.
- ③ standardized safety evaluation.
The DSA mandates comprehensive dam safety evaluation.
- ④ Transparent Reporting.
- ⑤ community involvement.
Local communities should be actively engaged in dam safety measures.
way forward
 - (i) early warning systems.
establishing advanced early warning system that can detect or blow off other hazard climate.
 - (ii) Regular maintenance.
Aging infrastructure must undergo regular maintenance and upgrades to ensure their continued safety and functionality.
 - (iii) International collaboration.

In summary of DSA it is said that DSA do their proper work who associated Authority. First detect the reason behind break dam then do the work. Early warning system, regular maintenance etc. to provide overcome the challenge from Loophole of DSA.