40.5/125

Name —

Roll no —

Date — 08/01/2024

Mob no —

Dear

Positive:

Your almost all answers are started in the right context; good start of the answers

You have mostly undertood answer well and written contextual content (except q10 - need to tweak understanding here - highlighted in the question itself)

Overall Satisfactory attempt with 80% of te questions attempted well

Areas to improve:

You need to add more specific information and examples for enriching content in answers for instance you should refer to 1,3,7,9 etc.

In general underline keywords of the dimension to enhance the visibility of it.

Avoid frequent strike through text - it affects the neatness of the answer - as in q.4,7,9

Recent Surge in Artificial intelligence technology deep synthesis technology contribute a significant share regarding the development of A.I.

started answer in the current context - fine start

But the recent event such as a female actress's deep morphed video surfaced online arise a critical question regarding the effective application of such technology.

Role of deep synthesis technology :-

* This technology helps to recreate the voice of a person who is not able to speak.

* This tech. used for skill development regarding Machine learning technology.

relevant dimensions however use underlines for keywords for enhanced visibility of the content

* It's highly effective in teachings of engineering and Medical science due to it's accurate depiction of Process of learning.

* Useful tool regarding the grooming space technology, biotechnology etc.

The Challenges Presented by deepfakes :-

* Due to the accurate voice dubbing now the Morphed videos of prominent Personalities

Spreaded through ~~satr~~ social media.

'e.g:- Ukraine President Morphed video

Barack obama's Morphed video.

* Dt is used by the cyber criminals for economic frauds.

* Majorely the criminals targetted women by making their Morphed video.

* Dt is used for making face information and spreading it through Social Media especially in Election time.

Global Approaches aimed at addressing the adverse effect of deep fake tech.

* Recently the European union makes a law which makes responsible the big tech. and media companies for any spread of deep fakes in their Plat form.

* America makes a special task force regarding tackling deep fakes.

* China also has effective Media policy. However India doesn't have any policy regarding combating deep fakes.

[Margin annotations in red:]

relevant points

similar to first point - merge in one

add more - for eg: identity theft; trust deficit etc.

fine however mention the law - EU's Code of Practice on Disinformation:

relevant points

3

4

The ~~off~~ upcoming data protection bill have some provisions regarding this.

3)

3. From a Naxal hotbed that lay between a critical junction of Andhra Pradesh and Chhattisgarh, Odisha has transformed to a State that has pushed Left Wing Extremism (LWE) to the fringes. Comment. 10 Marks.

In year 2008 Odisha faced some catastrophic ~~effect~~ event involving left wing Extremism (LWE) where 21 out of 30 district were affected by it- especially Malkangiri, Koraput and Nayagarh district.

But today due to better implimentation of policies pushed LWE to the fringes.

┌─────────────────────────────┐
│ Action Plan Against LWE :- │
└─────────────────────────────┘

* Govt. Made a specialized unit for combating ~~the~~ against the Maoist.
* Redevelopment of Police ~~forces~~ in affected areas -
* Search operation ~~have held~~ in affected forest in regular intereval.

Infrastructural changes :-

In order to address the regional disparity govt. Makes significant Infrastructural

development such as -

- Gurupriya setu in swabhiman area
- Biju express way in western odisha
- Airport Connectivity on Malkangiri
- Many development project in KBK areas.

good content

Social development initiatives -

elaborate more on this

→ Efforts are Made for Mental rehabilitation of surrendered Maoist.

→ Community development Plan in such areas.

dimensions mentioned are relevant however can add more - for eg: Vigilance; deployment of security, surrender policies etc.

Implimentation of Many welfarist scheme regarding People's social condition.

Efforts to Made community Participation in Local governance -

→ Govt. offices were Made more inclusive.

→ Efforts are Made regarding high enrollments in schools and higher education institutions.

The successful Planning against LWE in odisha should impliment on other impacted sites such as Andhra Pradesh and chhatisgarh in order to restore th People's participation and development.

fine however alternatively can mention the current status of Odisha in terms of Naxal affected areas

4.5

4. What factors contribute to the disparity in air pollution severity among major metropolitan cities like Delhi, Mumbai, and Kolkata in India?

4.

The Major Indian cities such as Delhi, Mumbai, Kolkata are affected by Air Pollution which is responsible for poor living *Contributed* condition and Lower life expectancy in such cities lead to international embarasement.

avoid frequent strike-through text;

introduction is fine - however keep it limited to 3-4 lines

~~Delhi~~. Delhi is the most ~~impo~~ affected city in Air Pollution with respect to other cities like ~~B~~Mumbai, Kolkata and chennai.

Geographical factor :-

how does it impact pollution - elaborate

* ~~Delh~~ Delhi is a landlocked terreitory which is the Major reason behind the Air Pollution.

* Delhi often faces temp. inversion where Polluted cold Air mass trapped near to ground level.

relevant point

* But the ~~high~~ cities like Kolkata and Mumbai situated in coastal areas and receives Sea breeze so it faces relatively Lower Air Pollution.

rightly pointed

Anthropogenic factor :-

(annotation: underline keywords)

(annotation: contextual point)

* High stubble burning in Punjab and Haryana is also responsible for Delhi Air Pollution.
* High vis Vehicular emmission.
* Unregulated industrial Pollution leading to high emmission of PM 2.5 Material.
* Coastal cities are also faced such problems relating to Air Pollution.
* Heavy industrialization leading to 0 Massive deforestation often causes Air Pollution.

(annotation: both points similar - can be merged together)

(annotation: can add about - rapid construction in delhi)
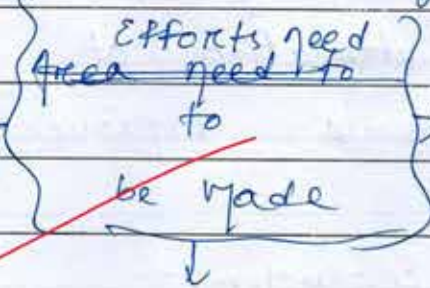
Way Ahead :-

(1) Making of urban Parks

(6) Awareness at individual level

(2) Better implementation of vehicular policy

(5) Better industrial regulation should be made

Efforts need Area need to to be made

(3) Creation of Urban Jongle

(annotation: suggestions mentioned are relevant)

(4) Efforts to be made to curb stubble burning

5

5. Define the concept of carrying capacity of an ecosystem as relevant to an environmen . Explain with the help of examples, how understanding this concept is vital while planning for the sustainable development of ecosystem in Odisha. 10 Marks.

5-

The concept of carrying capacity of an ecosystem means the maximus Population can live in an ecosystem without disturbing the health and stability. This is useful for understanding the condition of ecosystem sustainability.

Good introduction *(margin note)*

relevantly mentioned information *(margin note)*

<u>Understanding of Chilika lake Ecosystem:-</u>

* Chilika lake is the largest brakish water Lagoon in Asia. Which is home of some of rarest exotic specis all over world.

* Recently chilika lake is facing high fishing activity and heavy tourism leading to environmental degradation.

* Better understanding of capacity system, can lead to better utilization of resource management in order to improve ecological Productivity.

<u>Mangroove Ecosystem:-</u>

* The Mangrooves in Odisha have also some endanged specis and home of some exotic birds.

But due to heavy deforestation and Unplanned activity lead to enviromental degradation.

Learning Capacity building techniques can lead to Impliment better Policies regarding environmental Sustainability.

Heavy minning areas!-

Heavy minning in some mineral rich districts also lead to enviromental Pooblems. Learning capacity building techniques can - be used for better rehablitation of Specis and Population.

3

7-

Central Armed Police force Played a crucial role regarding the internal security maintainance and border protection. But recent developments Puts serious challenges ahead of better functioning of CAPF.

fine introduction

Role of CAPF :—

→ Maintainance of internal security — CRPF
→ Protecting Indo - Pak Border — BSF
→ Protecting Indo - Bhutan Border — SS.B
→ Indo - Tibetian Border — ITBP
→ Indo - Bangladesh Border — BSF
→ Gaining security eminent figures — NSG
→ Indo - Nepal Border — APF
→ India - Myanmar Border — Assam Rifles.

fine however elaborate all of them a little for eg CRPF maintaining law and order, counter-insurgency, and anti riot

Challenges faced by CAPF :—

⚹ Procurement Problems :—
CAPF often faces Problems regarding supply of Modern and efficient equipment due to Many supply- chain Botflenecks.

rightly pointed

* Heavy reliance by states :-

The states are heavily dependent on CAPF for its internal stabilization.

* High rate of suicide -

Recently the rate of suicide among APF Personal is very high due to monitoring of mental health.

* Lack of Youth engagement in regional areas often leads to high tension.

Recommendations :-

* There is a need to develop the Police infrastructure of states which can be helpful for the states to low reliance on CAPF for solving internal Problems.

* There is a need to improve the workload Management of CAPF Personel and providing better Eng. Counciling regarding their mental well being and to ~~improve~~ curb their suicidal tendencies.

[Margin annotations in red:]
mentioned well

scope to elaborate - work stress; poor work life balance etc.

specially J&K region etc.

relevant suggestion

fine point

N

* The scheme such as PM UDAAN should
properly implimented ~~show~~ to that
Participation could be improved by
regions.

* special efforts needed to ~~be~~ address
the Procurement ~~to~~ Problems.

Despite being such challenges faced
by CAPF this institution is India's
one of Most effective and Prestigious
~~institution~~. institution regarding ~~the its~~ Role.
~~of the~~ above issue could successfully
resolved then ~~the~~ Problems ~~will~~ be CAPF
became one of most efficient institution.

6.5

9.

Recently some of Major cities of Odisha are facing urban floods which bring the accountability and function of urban local bodies in the topic of discussion.

<u>Problems of urban flood :-</u>

* cities like Bhubaneshware, Cuttack and Berhampure etc are regularly facing this problems.

* Due to illegal unplanned development it is often lead to destruction of water catchment area that leads to urban flood.

* frequent choking of Drainage System due to heavy Plastic Pollution often lead to this Problem.

* This is causing destruction of roads, drainage and submergence of temples some areas.

* Some serious disease like Dengue spreaded rapidly in rainy season.

13

* Some other cities like Balasoree, Bhadrak and Sambhalpure is continuously facing such problems due to the illigal sand minning on river beds and high infrastructural development in water catchement areas.

Efforts need to be done -
* There is a urgent need to stop illigal activities ~~to~~ which ~~etc~~ causes urban flooding.
* Revamp of urban drainage for proper water discharge.
* ~~to~~ Throwing of Plastics ~~need to Proob~~ into the drainage need to be prohibitted.
* Local civic bodies should fully ~~ready~~ Prepared to handel such issues.

Long term Efforets :-

→ Support every household to ~~Prepare~~ install rainwater harvesting system.
→ Making of urban water gardens especially in ~~low~~ higher ~~Catle~~ Catchment regions.

* Making of a specialized unit for combating these situations with complete usage of technology.

* Effective coordination with IMD and regional departments and installation of early warning system in targetted regions.

* People awareness to be developed regarding plastic pollution.

* The Urban Local bodies should play leadership role regarding better function of Govt. Policies.

NDMA guidelines :- this is key part - add and elaborate

• Develop a Robust network for Hydro-Metocalogical observations.

• Broaden the usage Dooplex weather Radars.

early warning, design and management of urban drainage system, urban flood disaster risk management, techno- legal regime, response, capacity development, etc.

In order to protect the livelihood from the impact of Urban Flood each and every concerned agencies should cooperating eachother and perfarem effectively with poor implymentation of NDMA guidelines.

fine however more focus should be on NDMA guidelines

fine balanced conclusion

6

8)

The recent report regarding India's coastal erosion and destruction of ecosystem due to illegal or legal sand minning rose a significant environmental concern.

Sand in a raw material for many industries such as quartz, Real estate etc. But the illegal sand minning now behind the reason of following problems -

i) **Destruction of Marine habitat :-**

Due to the illigal sand minning from Coastal region it Put stress on Coastal ecosystem.

:- The coast of West bengal, odisha and Kerla now facing Significant destruction of Marine ecosystem.

ii) **Rapid Coastal erosion :-**

Due to these illegal activities some of beautiful beaches such as Juhu in Maharrastra and chennai coast now facing threat of erosion.

Teacher's annotations (in red):

first paragraph could be skipped - not adding value - implied in Q.

fine start

relevant information is mentioned

elaborate more on impact of this - for eg: loss of beach area; disruption in coastal sediment movement etc.

iii) <u>Impact on Coastal Population</u> :-

Many coastal districts of Odisha, Andha Pradesh, Tamil Nadu now facing fear of loss of land due to rise of high seas tide.

talk about livelihood - fishing community

iv) <u>Destruction of coastal Agriculture</u> :-

Due to illegal sand minning the Agricultural areeas of all the states coastal region Subjected to destruction which leads communities livilihood destruction.

contextual point

fine points however add examples and impact

v) Destruction on Coastal infrastructure -

vi) Habitat loss of Many Marine organisms.

<u>Rules and Regulation</u> :-

→ Regulation of sand minning comes under state list and every state has their own Mechanism to tackle this problem.

fine points

relevant
however
add more
- for eg:
Minor Mineral Status

7 sand minning regulation Act 2020 Makes audit based Permission fore sand minning on every 2 year interval.

Way ahead:-

suggestions
are fine
and are
mentioned
well

* There is a need to provide alternate of sand like stone dust fore making infrastructure, community participation on B stopping illegal minning.

* Needs moniter every coast by local authorities.

* Robust technological advancement needs to be done regarding the problems arised arises due to erosion.

7

10. Historically, G20 countries have emitted majority of the greenhouse gases driving the climate crisis. How is this impacting developing countries? Discuss this in the context of

10) Loss and Damage Fund. 15 Marks.

not adding value
- skip to keep introduction crisp

In the woke of scientific revolution and Industrial revolution Many westeren countries see development on the cost of environmental degreadation especially on Air Pollution.

fine context

The countreies like USA, UK and EU contributing More than 50% Global emmission of that specific Period.

In recent CoP-28 agreement all the countreies comes to a agreement to Provide fund for fighting ogaist the impact of Air Pollution.

How Greenhouse gas impacting developing countries :-

understand question better
- focus on impact of these countries
- like impact on

★ Africa is behind only 3% Global emmission but now facing 50% Global problems arising from green house effect.

★ countries like India and China being one of highest emmittere in recent still to having less % contribution on Global emmission.

agriculture; industry; damage of flood and other extreme events caused by climate change

* Countries like Pakistan, is facing severe impact regarding greenhouse emmission. → *generic - elaborate what impact*

missing implied part - greenhouse gases emission history of developed nations

creation of loss and Damage fund :-

* This fund agrees upon the "Polluter Pays" Policy. → *pointed well*

* All the G20 countries obliged to develop this fund not only for infrastructural development but also develop the robust Mechanism for human development.

missing more contextual content - for eg: Effectiveness of this fund - for eg: failed to reach target of US$100 billion etc.

* A committee need a being established to examine the impact of Green house emmission on developing countries and suggest the amount need to be Paid.

* It also Monitore the fund should be poorerly utilized. for

4.5