

Part-II

Q.2

Pakistan is facing with deteriorate -d air quality. Explain the phenomena, effects and measure?

→ Introduction:-

Pakistan is currently facing severe air pollution in terms of low air quality. As per report of Air Quality Index 2023, three cities of Pakistan are ranked among the most polluted cities of the world. This shows that Pakistan is facing deteriorating air quality and index declared Lahore as top among polluted cities. These are multitude factors behind this.

→ Air Pollution:

Air pollution is a type of pollution in which air becomes polluted due to anthropogenic and natural factors. This leads to bad or deteriorating

air. The low quality of air has negative repercussions.

Phenomena of Deteriorating Air

Quality: explain this smog formation process separately this is no gsa paper it is env science

Air gets deteriorated when man-made and natural activities release particulate and harmful gases. These gases go into atmosphere and react with gases of atmosphere. Ultimately, which results into low air quality. Deterioration of air quality also results into formation of smog and haze. which gases???

Factors Behind Deteriorated Air

Quality:

Following are the factors behind deteriorated air quality.

(i) Transportation:

The rapid use of transportation releases carbon monoxide and carbon dioxide into atmosphere which leads to air pollution.

(ii)

Burning of Fossil Fuels:

The burning of fossil fuels lead to bad air quality. They release carbon di-oxide into air.

(iii)

Burning of Crops:

The open burning of crops by farmers is contributing factor in formation of smog.

(iv)

De-forestation:

The rapid cutting of trees are aiding in air pollution. Trees are important in consuming carbon di-oxide.

(v)

Rapid Urbanization:

Rapid urbanization has increased the amount of chlorofluoro-carbons and halons into atmospheres which lead to air pollution.

(vi)

Growing Industries:

The smoke of industries and chimney lead to air pollution.

→ Effects of Deteriorated Air Quality:

Following are the effects of deteriorated air quality.

(i) Cause of Skin Cancer:

The low air quality is a cause of skin cancer.

(ii) Cause of Eyes Diseases:

The bad air quality is also a cause of eye diseases.

(iii) Cause of Respiratory Problems:

It is cause of lung's normal function -ing, which disease???

(iv) Leads to Reduce in Life Expectancy:

The low air quality leads to reduction in life expectancy of citizens.

(v) Formation of Smog:

The low air quality results in

formation of smog. The smog is combination of dust particles and beam of sunlight. It reduces visibility which disrupts normal functioning.

how ?? explain it
this is GSA answer

(vi) Threat to Avianes:

pollution is threat to avianes. The air

(vii) Leads to Acidic Rain:

pollution leads to acidic rain in which particles, dust combine with droplets in clouds to form acidic rain.

write formula of acid rain and chemical equation of H_2SO_4

(viii) Increases Green House Gases Concentration

The low quality of air is due to emission of gases. It leads to increase in concentration of green house gases.

(ix) Ozone Depletion:

The low quality of air leads to ozone depletion. Ozone from the air depletes ozone layer.

need chemical equation here too

Appropriate Measures for Better Air Quality:

Following are appropriate measures for better air quality.

(i)

Filtration of Smoke from Industries:

These should be concrete measures to filtration of smoke from industries before release into air.

(ii)

Re-Plantation of Trees:

There should be plantation drives to re-plantation. Trees act as natural screens for consuming air pollution.

(iii)

Banning of Burning of Crops:

Another appropriate measure would be ~~ban~~ banning of ~~crop~~ burning crops by farmers.

(iv)

Diplomatic Negotiations with Eastern Neighbours:

The ~~governm~~ent of Pakistan should ~~carry~~ diplomatic negotiation with India as most of smoke comes from Indian Punjab.

(vi) Switch to Re-newable Energy Resources:

which are those??? explain names here

Pakistan is producing electricity on 60% use of thermal energy. It should switch to renewable energy resources.

(vii) Switch to Electrical Vehicles:

impractical suggestion
too expensive for economic conditions

There is a need of time to switch to electrical vehicles. The transportation sector of Pakistan is a major source of carbon monoxide.

→ Conclusion:

Pakistan is a developing countries and it is behind in usage of renewable technologies. The current quality of air in Pakistan is the worst among regional peers. The factors and effects of air pollution are aforementioned. There is a need of hours to take concrete steps to reduce air pollution.

there is nothing related to env sciecne and syllabus of subject this ans is very basic and seems like you are answering a gsa question

very average answer 7/20

Q.3

Environmental Issues can be tackled through environmental management and effective decision making. Discuss?

→ Introduction:

The world is facing existential environmental issues. Humans are now at the verge of catastrophe. The rate of developing and developed world leads to unlimited damage of environment and environmental species.

However, these ~~damages~~ can be tackled through environmental management and effective decision making.

"When your house is on fire, the first thing you do is stop pouring more oil. If the earth is on fire, stop pouring fossil fuels into it."

(King Charles)

→ Environmental Issues:

Environmental

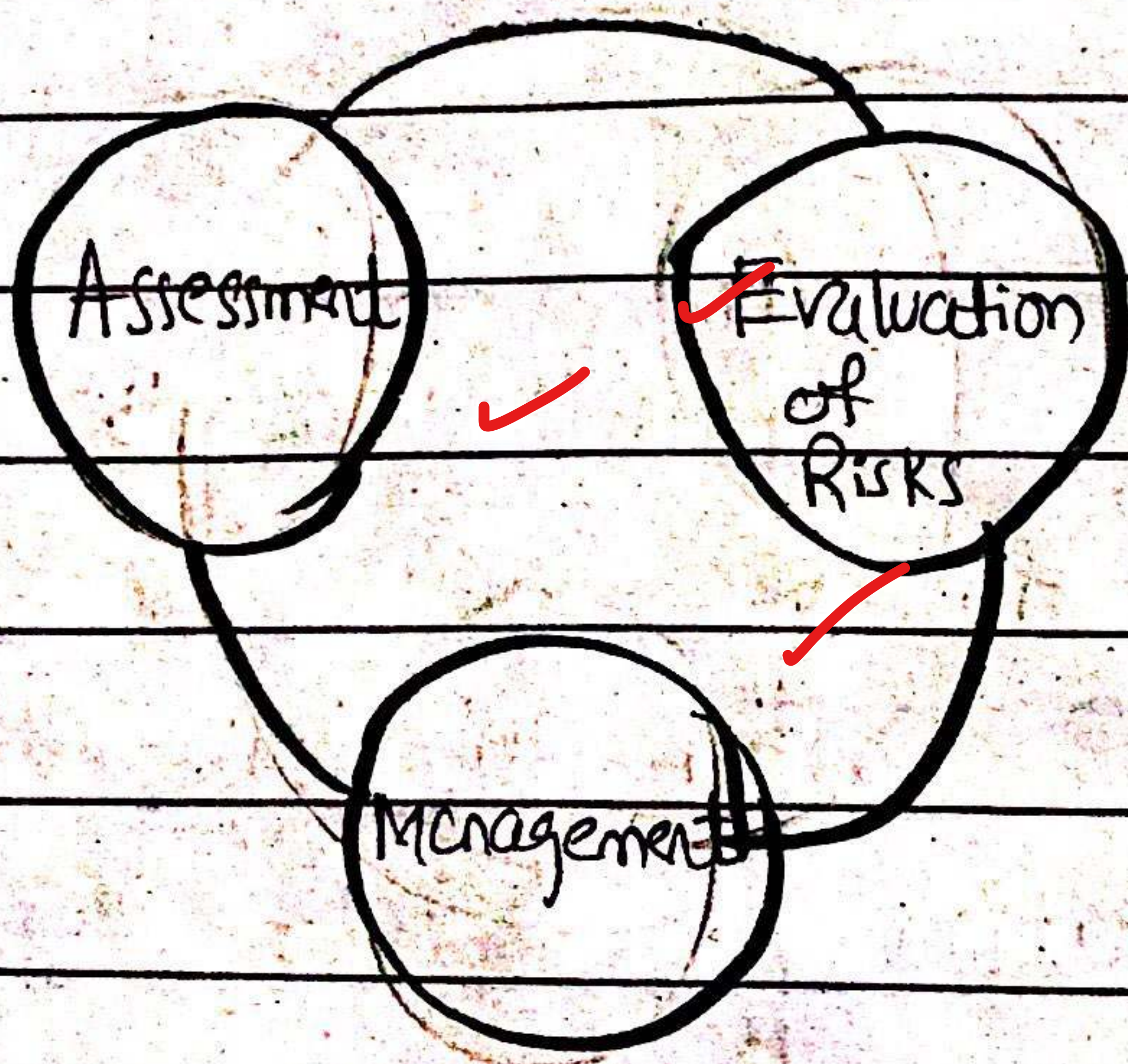
issues are damages to environment done by man-made activities. These issues are now become existential threats to humanity. These issues need to be solved.

Vanishing of Aquatic life	✓	Loss of Bio-diversity
Air Pollution	✓	Decline of Wetlands
Degradation of Soil	✓	De-forestation
Water scarcity	✓	Loss of Vegetation
Acidic Rain	✓	Ozone Depletion

food security
 unprecedented natural disasters
 changing weather patterns
 economic security concerns due to env loss
 existence of states is at state like maldives and venice

Environmental Management:

Environmental management is a process in which assessment, evaluation and management of any environmental project is pre-estimated in order to promote sustainability.



Component of Environmental Management

a) Assessment:

Assessment is a component of environmental management in which analysis

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are made before commencement of any environmental programme. It involves surveys, town meeting and demographic surveys.

(b) Evaluation of Risks:

This step involves evaluation of risks. The assessment draws a picture of possible risks. The evaluation of risks helps in finalisation of projects.

(c) Management:

The environmental management involves planning and preparedness of risks. The selection of project areas and management of possible risks comes under environmental management.

→ Effective Decision Making:

Effective decision making aids in tackling environmental issues. It involves conferences, round table talks and defining of environmental policies.

→ Conference of Parties (COP):

COP 26 27 28

WRITE ABOUT THOSE DECISIONS HERE

Conference

of parties involves annual meetings of all head of states, non-governmental organizations and environmental analysts. It decides targets, policies and transfer of environmental technologies to tackle environmental issues.

→ Strategic Environmental Assessment:

Strategic Environmental

Assessment (SEA) is a process
of estimating risks before
designing environmental policies
and decision making.

It is a pre-requisite of
policy decisions.

→ Environmental Ministries,

The Rio Declaration of 1992 had resulted in creation of environmental policies^x ministries. These ministries in every country deal with ~~tracking~~ environmental issues and promote sustainable growth.

→ Conclusion:

VERY GENERIC ANSWER
NOTHING WRITTEN FROM THE
SYLLABUS OF THE SUBJECT

6/20

It can be concluded

that environmental management

and effective decision making has proved to be efficient in addressing environmental issues. The management and evaluation of possible outcomes of any project in environment can be helpful in tackling of issues and its destructive results.

Save the earth
and save your
generations.



Q.4

"Era of global warming has ended; this is era of global warming ^{soil} justice. the statement?"

Introduction:

"Era of global warming has ended; this is an era of global warming."

boiling

This is the statement from Opening ceremony of COP-28, stated by Secretary General of the United Organizations. It

write his name here

depicts serious concerns of global warming and increase in temperature of

earth. There is a dire need of taking bold steps to save humanity and control temperature of earth.

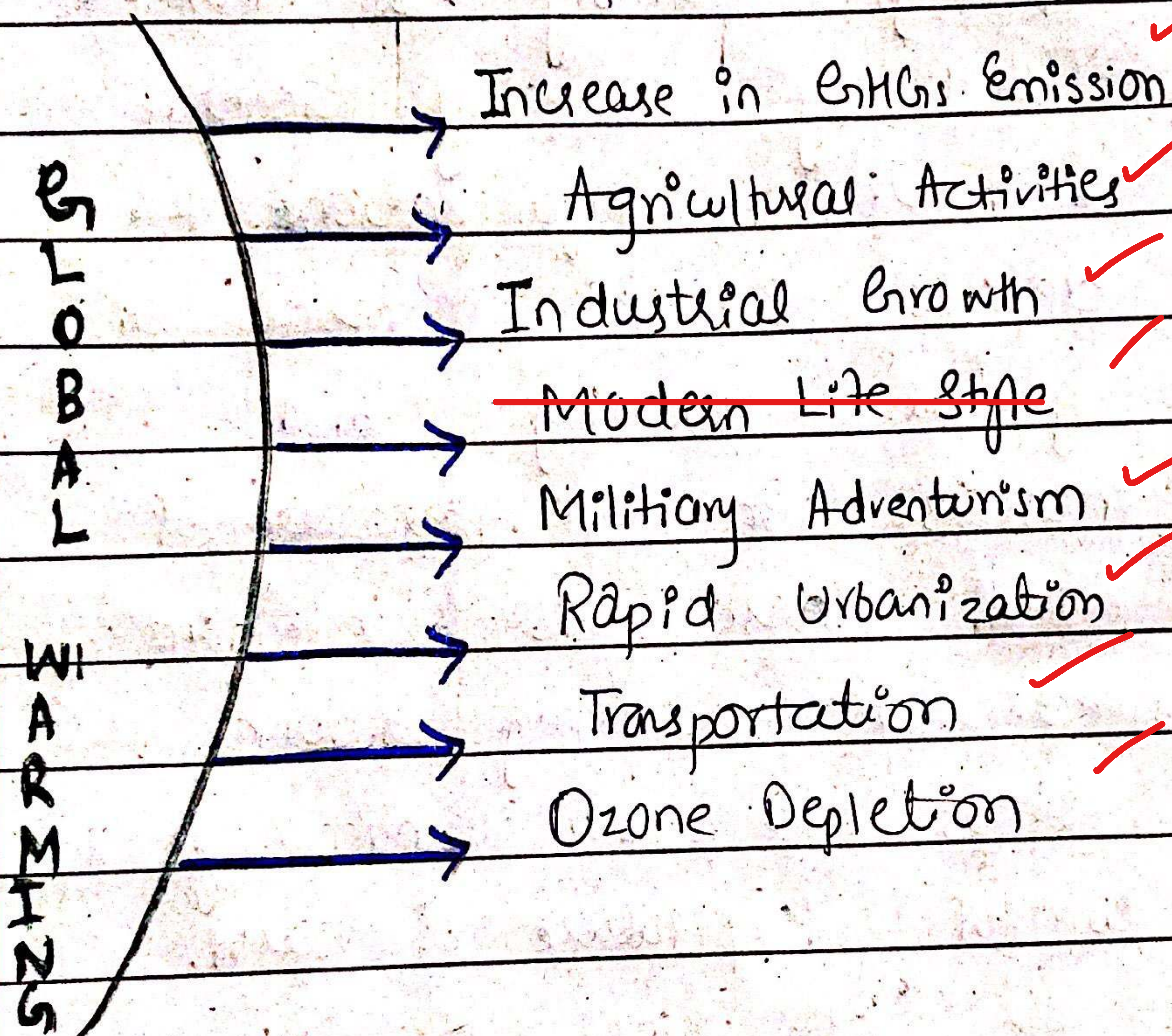
"By using fossil-fuels, man is architect of his own destruction."

(Barack Obama)

you were supposed to write that threshold we were to achieve in 2050 of average increase in temp of earth to 1.6 to 2 degree cel has been achieved in 2025, 25 years this is the what he meant about global boiling there are no facts written about earth temp this year was the hottest year in the history no data of anykind 4/20

→ Factors Behind Global Warming:

Following are the factors behind global warming era.



(i) Increase in Green House Gas Emission:

The increase in green house gases in atmosphere lead to

//_/20

increase in temperature of the earth.

(ii) Agricultural Activities:

The increase in agricultural activities by human to enhance production of food results in global warming. For instance, burning of crops.

(iii) Industrial Growth:

Industrial growth of developed countries has also contributed in the global increase in temperature. The pre-industrial era and post industrial era has difference of 1° temperature.

(iv) Modern Life Style:

Modern life style introduces modern facilities among humans. The

use of air conditioners and refrigerators releases chlorofluorocarbons in environment which causes depletion of ozone layer and result in increased temperature of the earth.

(v) Military Adventurism;

Military adventurism and nuclear arm race has increased the temperature of earth to certain level. The uranium enrichment has contributed in global warming.

(vi) Rapid Urbanization:

The rapid urbanization vanishes wetlands and forest covers. The erosion of forest is another factor in global boiling era.

(vii)

Transportation:

The transportation sector has released carbon monoxide in atmosphere to great extent.

(viii)

Ozone Depletion:

The depletion of ozone layer resulted into coming of ultra violet radiations on earth and they trapped into earth. It results in increasing temperature of earth.

→

Measure to control Global

Boiling:

Following are the recommendations to control global boiling.

(i)

Limits CO₂ Emission:

The first measure is to limit emission of carbon dioxide on the earth.

(ii) Banning of Carbon Trading Quotas:

these should be banning of carbon trade quotas. Its misuse leads to increase in temperature.

(iii) Switch to Renewable Energy Resources:

There is a dire need of switching to renewable energy resources such as wind and solar energy.

(iv) Switch to Electrical vehicles:

The switching of electrical vehicles from petroleum vehicles can reduce temperature of earth.

(v) Control Uranium Enrichment:

really?? uranium enrichments is the reason of earths temp rise??? The control of uranium enrichment by war mongering countries can be aidful in limiting temperature.

(vi)

Plantation Drives

The plantation of trees can be an effective measure in controlling temperature.

(vii)

Transfer of Technologies:

The transfer of green technologies between developed and developing countries can limit global boiling.

Conclusion:

The era of global boiling has started as temperature of earth has increased upto worrying level. The recent report of International Panel of Climate Change (IPCC) has warned that temperature of earth is increased upto 2°C. It is now existential threat, not only environmental threat. However,

it can be limited by
taking serious and bold
steps.

this is not current affairs paper dear student this is env
science

"Climate change does
not respect boundaries,
not countries. It is a
✓ global problem which
needs global solidarity."

(COP26)



Q. 5 a) Highlights the developments
of COP-28?

→ Introduction,

Conference
of Parties (COP) is
annual session of all
head of states, non-govern-
-mental organizations and
environmental experts. The recent

_ / _ / 2023

meeting of COP was
28th session. It held at
Dubai between Nov - Dec 2023.

It aimed to address
environmental issues and
affectedes of environmental
degradation. However, it is
yet to see either the
promises would be fulfilled
or forgotten.

Salient Features of COP-28:

Following
are the salient features
of COP-28.

- (i) It is aimed in COP-28
to establish "loss and
Damage Fund" for affecting
and affected developing
countries. This fund would
be funded by the developed
countries.
- it was done in
cop 27

(i) The reduction in green house gases upto 2050 will be take place. done in cop 26 it was 30% 30% 30% debate

(ii) It is aimed that until 2075, all transportation sector will be switched to electrical mode.

(iv) It is also aimed to limit the temperature of earth to further escalation.

Critical Analysis of COP-28:

COP-28 faced criticism on various aspects. The selection of venue, Dubai, is major oil producing country's part. It aids in global warming. Another aspect of criticism is loss and damage fund. The developing countries

//_/ but

have stance that developed countries had contributed in climate change by industrialization. Now it's our turn and developed countries should pay for it.

"No issue has divided the global north and south other than climate change."

sultan al jaber is the owner of saudia's 1st green zero emission MASDAR city housing project he has dual stakes he was strategically placed to be the head of cop 28 plx check your facts!

(Dawn News)

Conclusion:

Climate change is a grave threat and the world is now focusing on it. The recent annual meeting of COP-28 aimed to limit global temperature and address consequences of climate change. Hence, it is up to the developed world that how they tackle issues.

b) Eutrophication?

→ Definition:

Eutrophication is a phenomena in which algae and bacteria grow in water and block the sunlight to enter into water and reach at the bottom.

meaning eutro/ process of formation??
any diagram???

→ Causes of Eutrophication:

Following are the causes of Eutrophication,

(i) Water Pollution:

The water pollution leads to growth of algae into water and causes

Eutrophication.

(b) Oil Spillage:

Oil Spillage from marine ~~transportation~~ leads to formation of oil layer on water which causes eutrophication.

(c) Use of Fertilizers:

Excessive use of fertilizers leads to cause eutrophication in water.

→ Impacts of Eutrophication: Following

are the impacts of eutrophication.

(i) Death of Marine Animals:

Eutrophication causes death of marine animals such as fishes as no sunlight is reaching these.

(i)

Damage to Water Quality:

Eutrophication leads to ~~damage~~ of water quality.

(ii)

Death of Phytoplanktons:

Eutrophication leads to death of phytoplankton in water.

→

Remedies to Stop Eutrophication:

Following are remedies to curb eutrophication.

(i)

Control Water Pollution:

Eutrophication can be controlled by controlling ~~water~~ pollution such as industrial and domestic wastes into water.

(ii)

Less Use of Fertilizers:

Eutrophica
-tion can also be controlled
by less usage of fertilizers.

(iii)

Control Oil Leakage:

There
should be sealed transportation
of oil and petroleum products
from machine.

this is not an appropriate ans 2/10

there are no facts or data in any answer not even the proper
chemical equation or any syllabus reference
not satisfactory these are not appropriate for env sc