

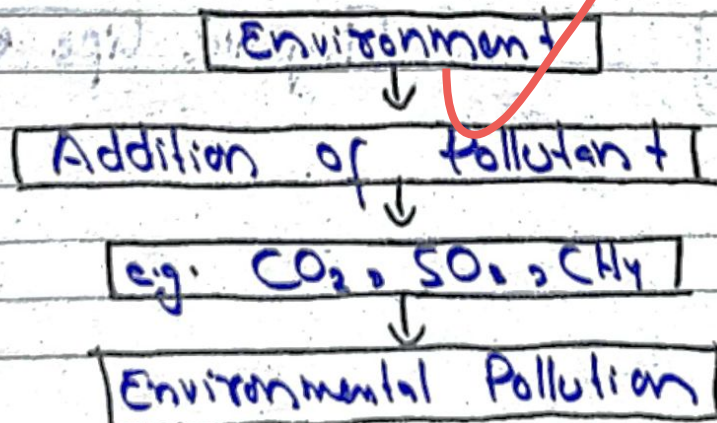
General Instructions

Q No: 3
Ans:

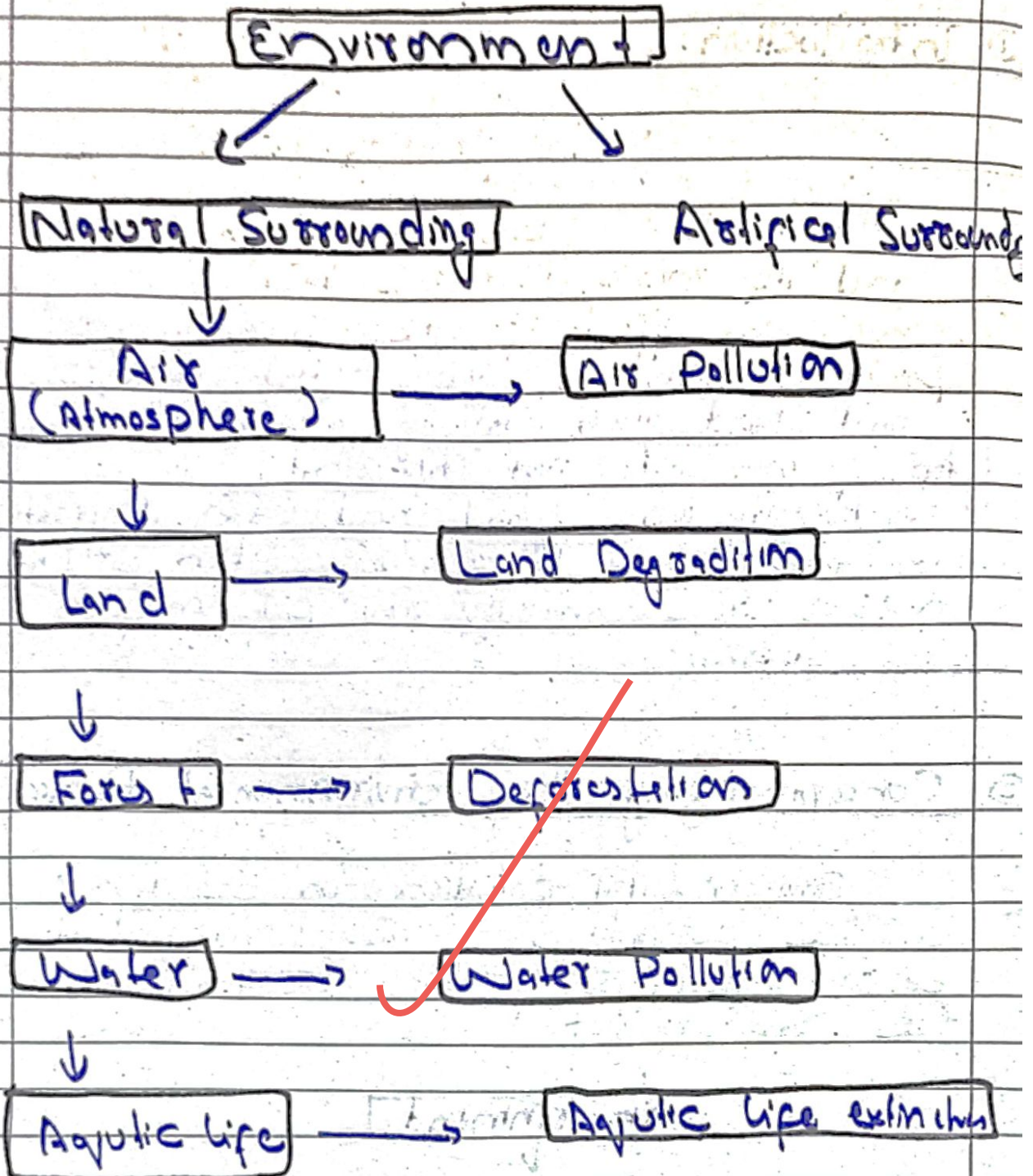
1. Give numbering to headings
2. Do not write lengthy paragraphs. Write medium sized paragraphs with headings.
3. Do not use table for comparison and contrast questions.
4. Draw figures/diagram/flowchart where needed.
5. Start new question from fresh page.
6. Give around 15 headings for 20 marks question.
7. Every question should have introduction and conclusion paragraphs.
8. Change colour scheme for references to give them more visibility.
9. Manage time well.
10. Wide page borders are discouraged. Should be reasonable.
11. Avoid writing wrong references.
12. Give more weightage to expressedly asked part/s of the question.

② Conceptualizing the Environmental Pollution

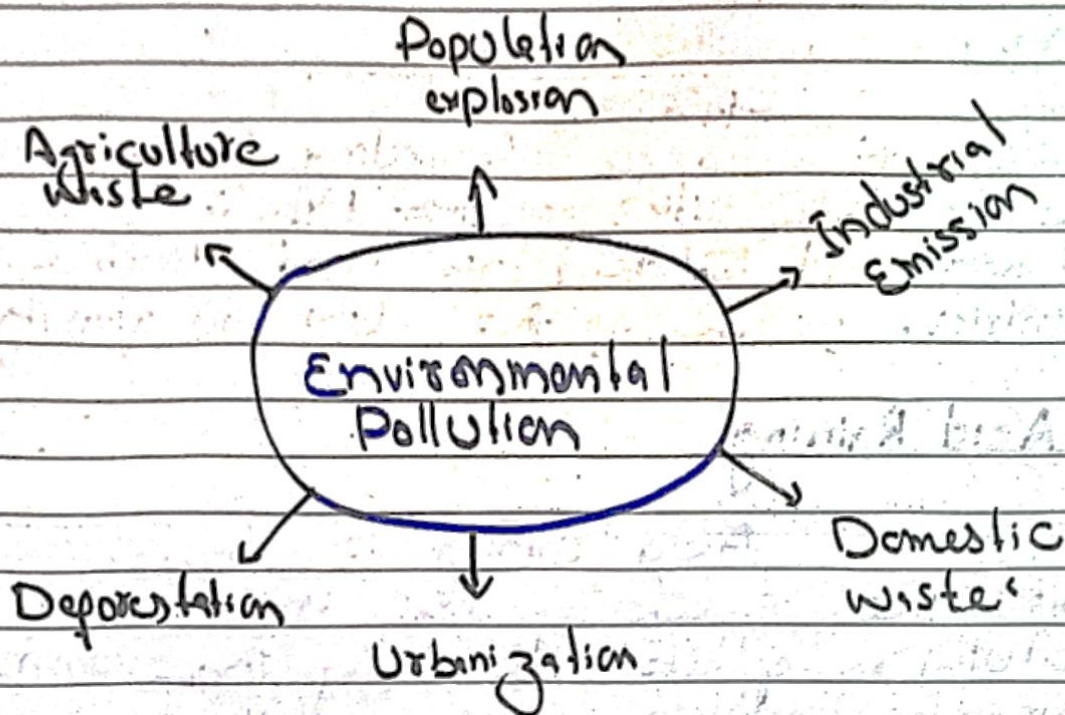
Environmental pollution can be defined as the degradation of the environment by the addition of toxic substances in the environment.



② Dimensions of Environmental Pollution



④ Sources of the Environmental Pollution



⑤ Effects of Environmental Pollution

The effects of the environmental pollution are divided into the three parts, that includes the social effects, economic effects and the environmental effects itself.

⑥ Environmental Effects

(i) Air Quality Degradation

The air quality degradation is one of the effects of the environmental pollution. The air quality degradation is associated with the Air pollution.

which is the worst enviro part of the environmental pollution. Owing to the air pollution the quality of air is degrading especially in the developing world. For example, According to a survey the cities of the Pakistan (Karachi and Lahore) are least liveable countries, because of the low air quality.

ii Acid Rainng

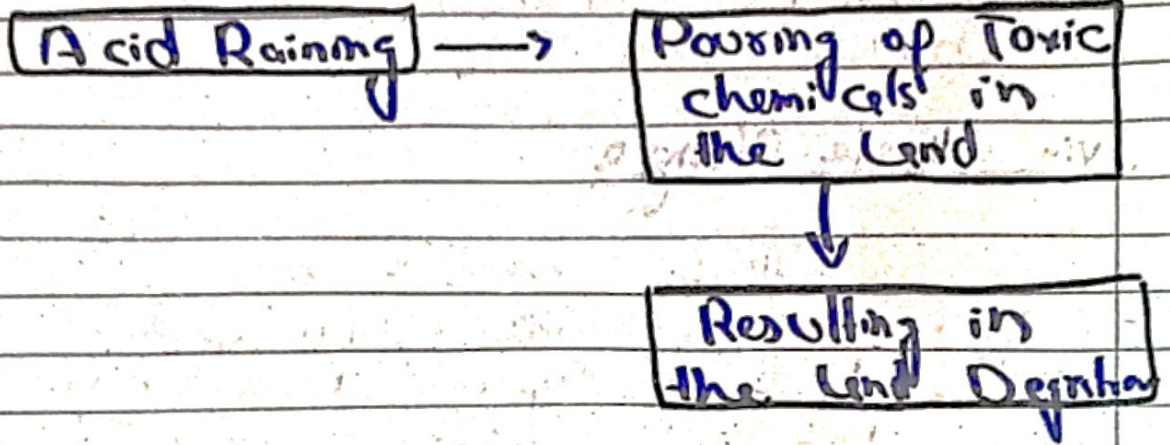
Acid raining is also associated with the effects of the environmental pollution effects. Because of the environmental pollution, the pollutants in the atmosphere forms chemical reaction; Thus, resulting in the Acid Rainng.



iii Land Degradation

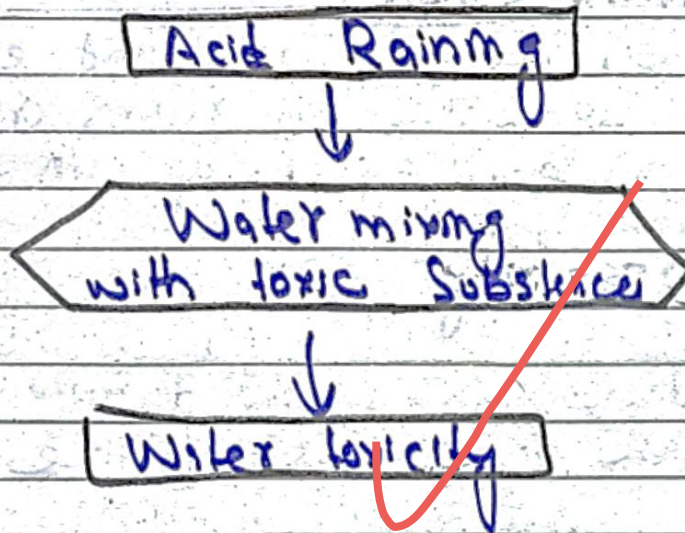
Land degradation is also linked with the effects of the environmental pollution. Because of the acids raining, the toxic substances falls on the surface of earth, thus resulting in the

land toxicity and finally the land degradation.



iv Water Toxicity

Yet another effects of the environmental pollution is the water toxicity.



v Biodiversity Loss

Biodiversity loss is also linked with the effects of the environmental

pollution, because of the environmental pollution the very basic food chain gets disrupted and resulting in the biodiversity loss.

via Climate Change

Climate change is also an effect of the environmental pollution which is being displayed because of the atmospheric pollution and ozone layer degradation.

(b) Social Effects

i Immigration Crisis

Rapid melting of ice and excessive rains may cause the immigration crisis. It is also a social effect of the environmental pollution.

ii Food Insecurity

Biodiversity loss, land degradation may increase the risk of the food insecurity.

iii Diseases Spreading

Rapid changing climate increases the risk of diseases spreading.

iv Locust Attack

Climate change makes suitable

environmental pollution focuses:

© Economic Effects

i Infrastructure damage

ii Industrial Shutdown

iii Agril Land deterioration

iv Livelihood Extinction

© Measures to control the Environmental Pollution

© Implementation of the Climate Treaty

In order to control the environmental pollution, the states should strictly implement the environmental treaties.

© Sustainable Industrialization

Industries are the major source of the environmental pollution. In order to control the environmental pollution the countries should opt for the sustainable industrialization.

① Solarization of Service and Industrial Sector

Electricity production also causes the environmental pollution. There to shift in the solar energy, promotion of solarization is important.

② Awareness about the Environmental Pollution

In order to control the environmental pollution, the awareness about the environmental pollution among the masses is the need of the time.

③ Conclusion

The world is facing the worst of the environmental effects, from the environmental, economic to social effects everywhere. In order to control the environmental effect, the environmental pollution must be controlled first. Therefore, to control the environmental pollution the above mentioned suggestions must be applied.

ANS 1:

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① Introduction

The effects of the climate change can not be understood without conceptualizing the term climate change itself. However, the world is inundated by the severe effects of the climate change, from the melting of the ice-sheets to the unprecedented rainfalls patterns and heat waves are the clear manifestations of the effects of the climate change. Moreover, the rising flooding in the world is also the climate change effect. Including the proper drainage systems, rain water harvesting mechanism, construction of mini dams and afforestation and tree plantation are the best measures to counter the urban flooding.

② Understanding the term Climate change

A persistent change in a weather system of a specific geography within a given specific time period is called as a climate change (Oxford)
OR. An abrupt change in a

Climate of a specific geography is called climate change.

③ Effects of the Climate Change

As mentioned above, the world is muddled in the effects of the climate change, for example the rapid changing rain patterns and ice melting is some of the effects of the climate change.

④ Harsh Weathers

Harsh weathers is a one of the worst manifestations of the climate change. According to BBC news, the year 2023 can be regarded as warmest year in the history. The harsh weathers are not only associated with warm weathers, it is also associated with the extreme cold weathers, for example, the unprecedented cold waves in the month of January 2023 in the Himalayan Region is also a sign and effect of the climate change.

② Melting of Ice Sheets

The rapid melting of the ice sheets is also a effect of the climate change. The melting of the ice sheets are witnessed throughout the world. According to the geographic survey, the ice sheets of the Antarctic are melting very rapidly. Similarly, the melting of the ice glaciers are also witnessed in the Himalayan region.

③ Increasing Sea Level

The increase in the sea level is yet another effect of the climate change. As per IPCC (2013) the sea level is increasing every year 4 inch. The phenomenon of increasing sea level is because of the rapid melting of the ice sheets thus, the worst effect of the climate change.

④ Unprecedented Raining Patterns and Flooding

The unprecedented raining patterns is a clear sign of the climate change and the flooding is a clear effect of it.

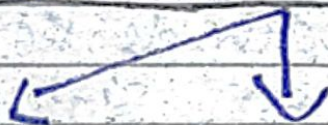
The unprecedented raining patterns are being witnessed every where in the world. As per NDMA, Pakistan witnessed an unusual rain of more than 1200 mm in an area where the rain is not common, thus resulted in flooding. Therefore, it can not be wrong to say that the flooding is the worst of the side effects of the climate change.

② Droughts: A Effect of Climate Change

Yet another effect of the climate change is the droughts in a place where the droughts are not common. For example, according to DW news channel (2022) the droughts in Spain 2022 was the effects of climate change. Therefore, it can also be associated with the effects of the climate change.

④ Illustrating the Reason of Rising Flooding in the World

Climate Change



Rapid Evaporation

Glacial Melting

Rapid Cloud formation



Excessive Rain



Flooding

Increase in River Water



No Dams and Management



Flooding

⑤ Appropriate measures to counter the urban flooding

① Ensuring Proper Drainage System

In order to counter the urban flooding, to ensure the proper drainage system in the urban areas of the country is necessary. As the developed countries of Asia and Europe have ensured it.

② Rain Water Harvesting Mechanism

The rain water harvesting mechanism should be installed in the urban areas in order to avoid the urban flooding.

⑤ Construction of Mini Dams

Construction of Mini dams is important to avoid the urban flooding in order to let the flow of water in the dams.

⑥ A-Forestation and Re-forestation

Plants have been the protector against the flooding, because of their roots. Therefore, afforestation and reforestation is important in the urban areas to avoid the urban flooding.

⑥ Conclusion

The effects of the climate change have been witnessed in the world from the harsh weathers to the unprecedented raining patterns is the manifestation of the effects of the climate change. Moreover, the rain water harvesting, construction of mini dams, ensuring the good drainage system can counter the urban flooding.

Ques

Population Explosion

The term population explosion means, the increase in the human population very rapidly. Or an unprecedented growth in the human population is called the population explosion. According to UNDP, the human population a century ago was less than one billion. But in 2023, the human population has crossed the 7 billion figure and has reached 8 billion on November 2022. Thus, phenomenon is called the population explosion.

Source of this data?

Reasons behind the Population Explosion

Advancement in Modern Technology and Food Security

Owing to the advancement in the modern technology, everything in the present time is in abundance. Thus, the abundance of every resource has enabled the humans to thrive and grow the population.

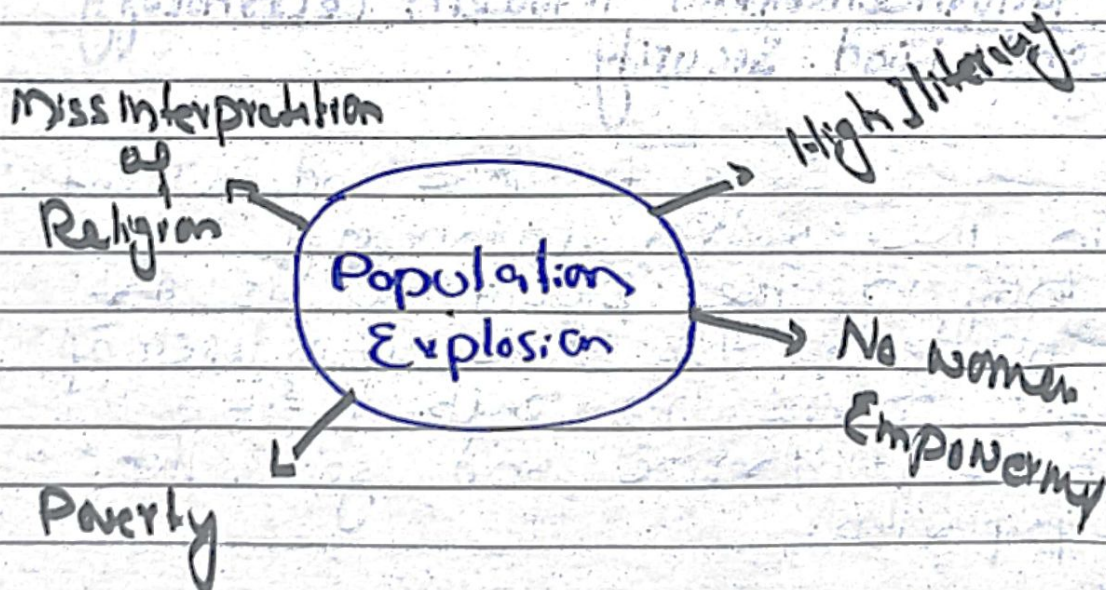
① Advancement in the Medical Sciences

Advancement in the medical sciences is another reason behind the human population explosion. According to the writer of book *Sapiens*, Yuval Noah Harari, the advancement in the medical sciences has declined the death rate in humans.

② Thriving of Peace in the World

In old times, the human's survival was less, because of the threat of the wars, but in the 21 century the peace has thrived and the human population also -

Others Reason



② Effects of the Population Explosion

① Declining the Natural Resources

Declining of the natural resources is one of the first effect of the population explosion. For example the natural resource like water is being declined. According to famous analyst the WW3 can be on the water.

② Rapid unsustainable Industrialization

The population explosion gives the clout to the rapid unsustainable industrialization which in long term cause the climate change and global warming.

③ Deforestation and Urbanization

Population explosion also encourages the deforestation for the urbanization in order to live in cities. That results in the atmospheric pollution and in a long term global warming.

In the rural areas the

① Methods to Control the Population explosion

① Empowering Women

Empowering women is necessary in order to control the population explosion. Because if the women are empowered they can decide for their own decisions with respect to population.

② Educating Everyone

Illiteracy is another cause of the population explosion. Hence education for all is another way of population control.

③ Government Initiative of free Contraceptives

The government should start/take initiative for the free contraceptives in order to control the population explosion.

④ Positive Role of Religious Leaders

The positive role of religious leaders should be ensured for the purpose of population explosion.

① - Deforestation

The term deforestation can be defined as a process of cutting down of the forest available in the Earth. According to a survey in every (1) one minute tree are cutting down in the world. This mass cutting of the trees or the forest is called as the deforestation.

② Reasons behind the Deforestation

① Urbanization

Urbanization is one of the first reasons behind the deforestation. Humans cut the forest to build cities.

② Infrastructure Development

The infrastructure development is another reason of the deforestation.

③ Industrialization

To set-up the industries, the humans cut the trees.

④ Domestic usage

In the rural areas the

the humans go for deforestation for the domestic usage like for energy purpose.

(B) Effects of the Deforestation

(a) Imbalance in the Absorption of the CO₂

Forest are mainly responsible for the absorption of CO₂. Though the deforestation brings the imbalance in the absorption.

(b) Climate Change

In the effect of the deforestation the climate change occurs.

(c) Biodiversity Loss

The forest are the base takes up the biodiversity. The deforestation brings the biodiversity loss.

① Solutions to Stop Deforestation

Awareness about
the benefits
of
Forests

Penalizing the
criminals

Institutionalization
of
Climate Resilience

