

Ques:

(A) Industrial Revolution brought significant changes to the environment. Discuss (10) mks

(B) Give a brief account on Stockholm declaration (10) mks

## ① Introduction:

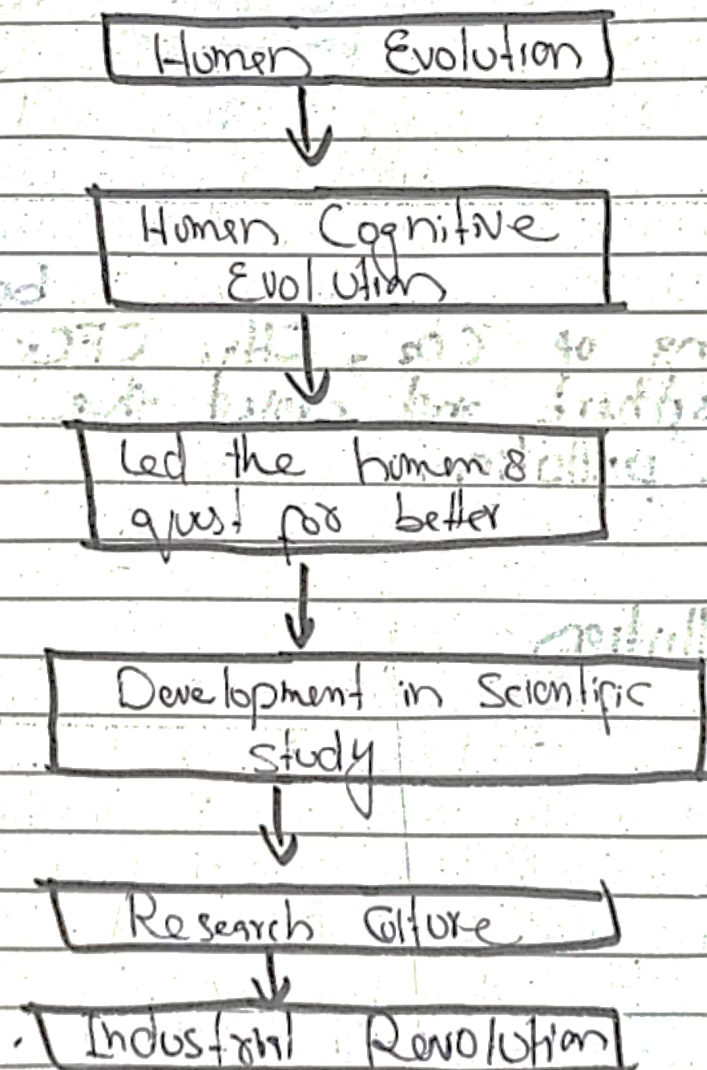
Industrial revolution is considered as a benchmark in the intellectual evolution of the mankind. However, despite being a benchmark, it has brought significant negative changes to the environment. That can not be understood without being thoroughly understanding the industrial revolution. Moreover, the current environmental problems, from the Atmospheric pollution to global warming are the result of industrial revolution.

## ② Understanding the concept of Industrial Revolution

Since the formation of the universe 1.5 billions years ago, the whole universe is evolving with each passing time, and the residents of that universe are also evolving. In short, the human living in the milky way witnessed the evolution from biological evolution to the cognitive evolution. The later evolution motivated the humans to innovate new things. Owing to that innovate

The humans created machines, which turned the whole system of production and enabled the industrial revolution. In other words, industrial revolution changed the mode of production of goods. The humans who were solely dependant upon the agriculture were now able to depend upon the industrial sector. As per research, by 1970s half of people in England were employed by industries.

### 3) Highlighting the factors that led the Industrial revolution



no need for this just write the time of industrial revolutions till ww2

## ③ Changes to environment brought by the industrial revolution

The industrial revolution brought many significant changes to the environment that altered the natural equilibrium of the environment and some of them are given below.

### ① Atmospheric Pollution

The planet Earth is surrounded by its natural atmosphere that contains different gases in it. For example, Carbon dioxide is 0.2%, Oxygen, 21% and Nitrogen is 78%. However, because of industrial revolution, the basic equilibrium changed of atmosphere because of increasing of  $\text{CO}_2$ ,  $\text{CH}_4$ , CFCs into the atmosphere and caused the atmospheric pollution.

### ② Land Pollution

The pollution is also brought by the industrial revolution. As mentioned above, the infiltration of industrial pollutants into the atmosphere resulted and the chemical reactions with the already existing chemical molecules in the atmosphere.

That resulted in the acid rain. Owing to pouring of Acid rain it also deteriorate the land and caused the Land Pollution.

### ③ Depletion of Ozone Layer

One of the biggest change in the atmosphere triggered by the industrial revolution was/is the depletion of O<sub>3</sub> layer. In year 1970-1973 the scientist found a hole in the Ozone layer near the Antarctica and Atlantic region. While research they found that, the release of CFCs in the atmosphere has reacted with the O<sub>3</sub> and cause a big hole.

### ④ Climate Change

The industrial revolution has brought the climate change with itself. As, due to massive industrialization and its other forms of connecting e.g. formations of metallic roads, etc. caused the climate change in level. For example, London smog 1952, 2002 floods in Pakistan, Volcanic eruption in 2003, Cold winds in USA 2001.

onment

Others

Industrial  
Revolution  
Changes in  
Environment

Global Warming

Bio diversity Loss

Oceanic Pollution

Desertification

## Conclusion

The industrial revolution brought many significant changes in environment. From example, the ozone layer depletion, atmospheric pollution, land pollution, global warming, climate change, water pollution etc. all the result of the industrial revolution. However, in order to understand the industrial revolution holistically, one must understand from its background.

ans is ok

write some contemporary issue newly emerged issues like food security environmental refugees, rising water level and existence of state like Maldives and Venice etc are at stake as the aftermaths of ind rev

over all ans is acceptable 5/10

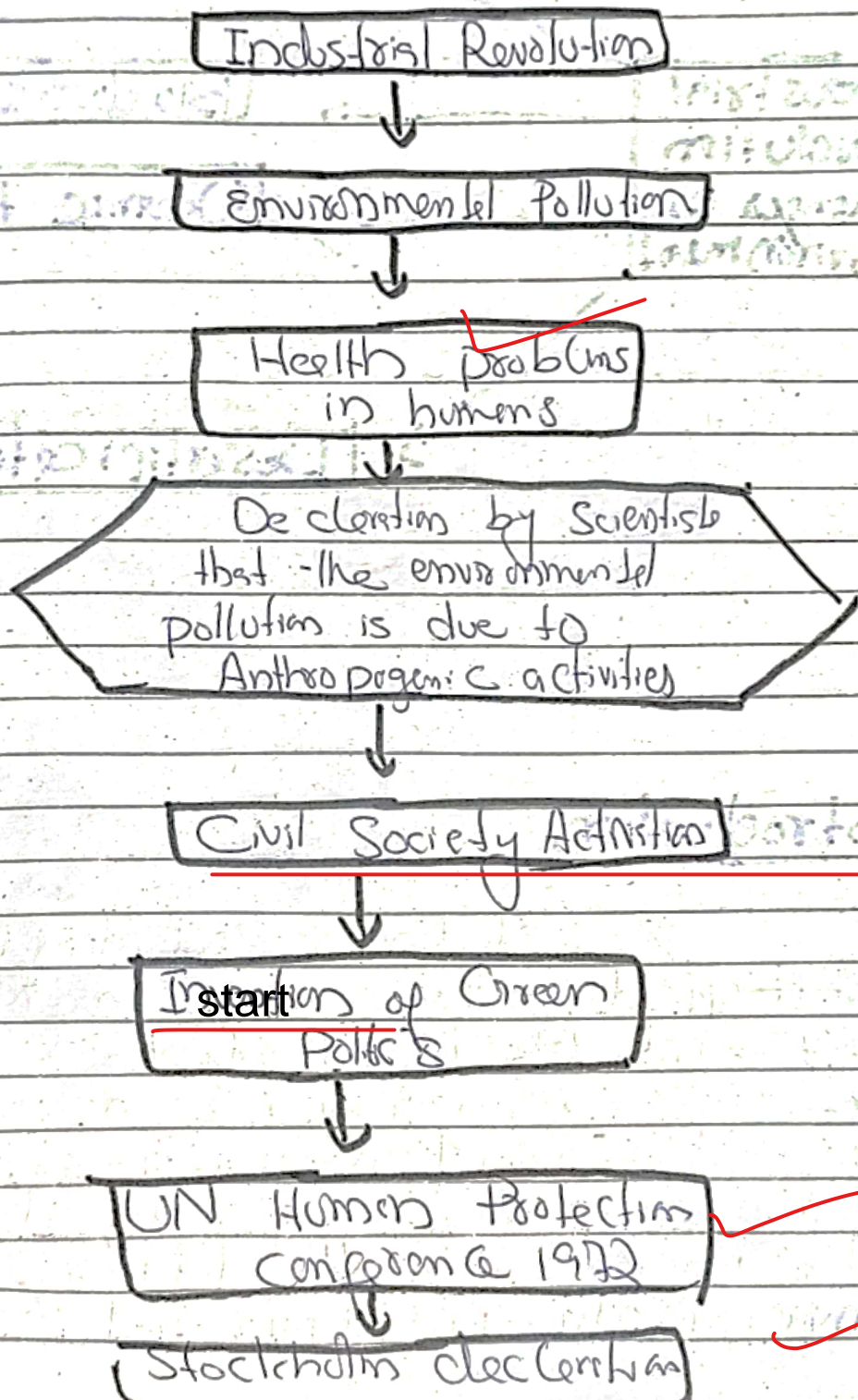
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## ① Introduction

The Stockholm Declaration was  
~~ed the~~ effect of the changes in the  
environment due to industrial revolution.  
The unprecedented changes in the  
environment alerted the civil society  
and resulted in the Stockholm Dec  
laration that ended in the United Nations  
Environmental Protection and the

principles of the Stockholm declaration  
for the member countries to follow.

## ② Contextual Background behind the Stockholm declaration





### ③ An overview on the United Nations Human Environment Protection Conference 1972

It was initiated by the United Nations in 1972 for the purpose of environmental protection. It was attended by all the member states and more than hundred non state actors joined it. It was ended in the declaration of stockholm principles and formation of 'UNEP'

### ④ Brief account on principles of Stockholm declaration

The the stockholm declaration a big list of principles was given, that served as a guiding principles for the member countries to deal with the environmental challenges. Some of them are given below

- i Human Rights must be protected
- ii Earth's capacity must be protected
- iii Non-Renewable energy resources

must be protected

iv Oceanic pollution must be prevented

v Solutions for the conflicts must be by dialogues and on reasonable

vi Nuclear weapons production must be prevented

vii Development projects must not hamper the environment

viii Environment concerns must not hamper the development

ix An integrated institution for development and environment must be created

x National environmental policies must be devised

xi The trade between the developing countries to developed countries must be exempted from tax

xii Policies for the atmospheric pollution must be devised

B

①

## Conclusion

The stockholms declaration was  
-the effect of the environmental pollution.  
that alerted the scientific and civil  
society for the environmental protection.  
that resulted in the policies and  
principles for the environment.  
In short, the stockholms declaration set  
precedent for the environmental law.

satisfactory 5/10

(1:10)