

where is the question????

## Q:2 (Earth Summit)

### 1. INTRODUCTION:

In 1992,  
the UN Conference on Environment and  
development was held in Rio de  
Janeiro, Brazil. It is also known as  
'Rio Summit', or 'Earth Summit'. It was  
the most successful multilateral event  
concerning environment where 170+  
countries, NGO's, activists, and many  
other players participated. It  
formulated a very comprehensive  
framework for environmental  
protection and sustainable  
development by devising key  
principles in the summit.

### 2. How was Earth Summit an important step towards environmental protection and promotion of sustainable development?



## • Finding the polluter

• Polluter bear

Responsibility  
(CBDR)

• Role of  
Communities &  
Women

• Sovereign rights

with  
Responsibilities

• Immediate

Response

The Mechanism

includes

International  
Cooperation

Participation  
and Awareness

Key Frameworks  
under the  
Agenda 21

4. Common but Differential  
Responsibility: Developed  
Nation bear more Responsibility



after the industrial revolution, developed countries adopted it and moved ahead without considering or factoring in the environmental implications. Since the climate issues rose quickly after industrial revolution, the developed nations now bear more responsibility.

B. Ensuring sovereign rights with responsibilities:

Exploitation of Resources should not go beyond borders

In the summit, it was agreed upon that countries can exploit their natural resources to meet their needs. However, the environmental implications of exploited natural resources should not harm countries beyond borders.



C. Role of Communities  
indigenously and of  
women in fight  
against climate change:

The Summit  
identified that women and  
communities have a key role  
to play in the fight  
against climate change and  
sustainable development.

D. Threats to deal with  
immediately without  
waiting for the actual  
disaster to happen:

Summit  
in Rio also identified that  
most natural disasters are due  
to lack of attention given to  
their level of destruction or  
carelessness. Therefore, any threat  
identified at primary stage shall  
be considered a full-scale threat.



E. Public Participation  
and awareness as  
key way forward  
to withstand and fight  
climate change.

The Earth

~~Summit~~ identified that public  
have a key role in implementation  
of the climate related policies.  
Therefore, awareness among them  
is a must.

F. Countries all around the  
world and party to the  
summit shall cooperate  
on the key principles:

~~Cooperation~~ International  
has a key role in  
success of the 'Rio Summit'.

Developed countries shall  
assist the developing nations  
in implementation of the  
framework.



G. Principle 3: sustainable development in all aspects of life is the way forward

✓ Among the key principles. There was a special key principle adopted for sustainable development. It was a successive achievement after it was identified in Brundtland Report.

H. Adopted United Nations Framework Conference on Climate Change : 4

✓ Key framework in environmental policy making

UNFCCC

was the most hyperopic approach that was adopted which would in future hold Conference of Parties COP every year.



I. UN Convention to  
Combat Desertification:  
Important step towards  
fighting and deterring  
conventional problems  
the

framework convention to combat  
desertification was a testament  
to the comprehensiveness of  
the Rio Summit which identified  
emerging problems.

J. Identified the role  
of forests in fight  
against climate change  
by adopting non-binding  
framework:

Although the  
principles on forests were  
non-binding, it paved  
a way forward towards  
identifying forests as key  
in environmental policymaking.



### 3. Critical Analysis :

Although this framework or Summit was a comprehensive one - it had some short comings. Which ultimately became reasons for lack of implementation. Also, developed countries criticized the Rio Summit because it put all the responsibility of climate change on them.

### 4. CONCLUSION:

The United Nations conference on Environment and development played a key role to ensure environmental protection and sustainable development.

However, it also had some shortcomings which can only be addressed through proper implementation and continuous reforms.



Q: 4

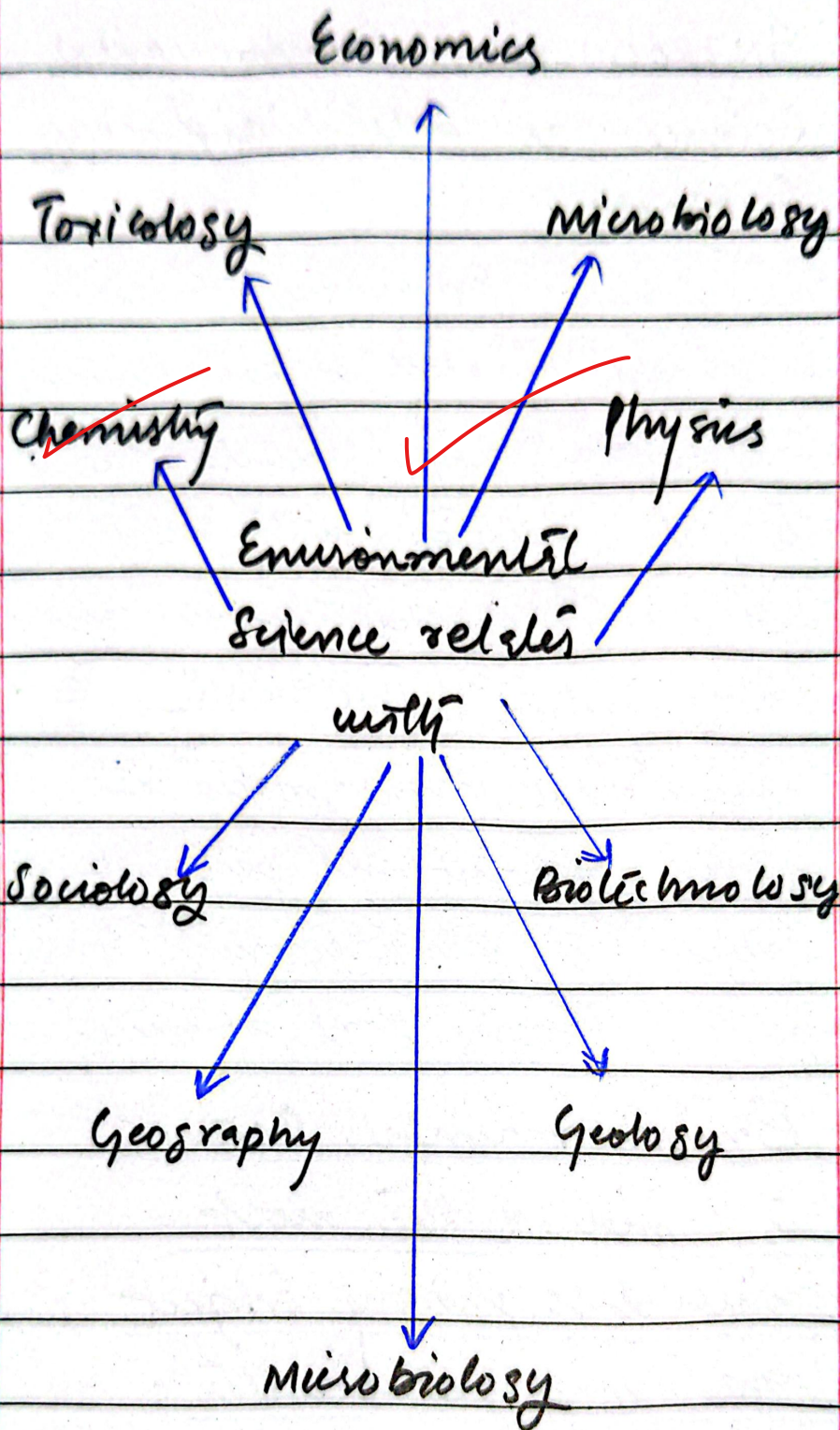
1. INTRODUCTION: Environmental Science as interdisciplinary Subject

Environmental Science is indeed the most interdisciplinary subject one may encounter due to its relation with social sciences, physical sciences and many subjects. This vastness of environmental science makes it a very relevant and pertinent subject to address emerging issues in the changing global dynamics.

2. Environmental Science is indeed the most interdisciplinary subject one may encounter:

The connection of environmental science with various disciplines is discussed ahead.





4. Environmental Science and Economics: 4 Key Relation



In Environmental Economics, the exports figure of many things including the valuation of environmental service.

Also, it studies how avoidance of potential environmental hazards result in saving of money due to environmental service.

Eg: Wetlands

### B. Interconnection between Environmental Science and Sociology:

Environmental

Sociology is a vast discipline concerning how environment is relevant in social circles. It includes role of public, their responsibilities in addressing climate related problems.

Eg: Ecofeminism, where women or feminists mobilize to protect the environment.



### C. Biotechnology as a key discipline in advancements in the Environmental Science:

Environmental

Biotechnology has emerged as a key subject. In this technology is used to address the impacts of climate. For example, addressing food insecurity using modified seeds.

### D. Use of Toxicological as a discipline to address toxicity in the environment:

Environmental

Toxicology is a subject in which play key role to detect toxicity in the environment. For example, using toxicological research to remove Sulphur Dioxide from the air or understanding dose/response relationship.



E. Understanding the  
Geography of a region  
to address its  
persisting environmental  
problems:

~~Environmental~~

Geography is a branch of  
environmental science. It answers  
why certain climate condition exists  
in a region.

Eg: Variations in climate due to Topography

F. Geology as a key  
discipline to analyze  
the evolution of a  
region's environment:

~~Environmental~~

Geologists study different materials  
and their history to analyze  
and figure out the  
variations of climate of that  
particular region historically  
and comparison.



g. Understanding the chemistry behind environmental phenomena to address root problems.

Environmental chemists study chemistry behind environmental phenomena to understand their root cause.

Eg: Breaking down of Ozone ( $O_3$ ) by Chlorine (Cl) and Bromine (Br).

h. Advancements in environmental protection mechanisms using physics.

Environmental physicists work to address key environmental issues by applying the principles of physics.

Example:

Moving on to renewable energy, using downward kinetic energy of water to generate hydroelectricity.



## I. Environmental

microbiology: Addressing  
environmental issues  
using microorganisms

Environmental microbiologists use microorganisms to address issues of environments and cleansing it using different microorganisms.

Examples Using microorganism to bioremediate, the ocean to break hydrocarbons during Exxon oil spill.

3. Way Forward: Using inter-  
disciplinary nature of Environmental  
Science to address emerging  
Climate threats:

The very nature of environmental science makes it a very relevant subject to address the existing and emerging global environmental issues. Therefore, more research should be encouraged in it.



4.

## CONCLUSION:

The  
nature of the subject of  
environmental science is very  
interdisciplinary. Developed and  
advanced countries ~~should~~ encourage  
advancements in it and should  
not oversee its importance.  
Ultimately, proper utilization of  
this discipline will result in  
addressal of pertaining and  
persisting environmental issues.

satisfactory answer is relevant  
over all need improvement in presentation  
skill  
12/20