General Instructions Chyllon mental Science:

1. Give numbering to headings

medium sized paragraphs with headings.

National notaise table for gent parison and is pakistans language questions.

Language notaise table for gent parison and surface years and comprehensive at needed adopting a multi-state hollows and comprehensive consultative newconstant thom assistances from Canadian Intermediated and properties and comprehensive on substituted and comprehensive and comprehensive for the properties of the properties of the parison of the properties of the parison of the properties of the parison o

NCS 7. Every question should have introduction and conclusion paragraphs?

3 - Washington paragraphs?

3 - Washington paragraphs?

600 September Colour Scheme all by the World over 3000

Participal paragraphs are as approved by the cabillet Wide page by the cabillet will be reasonable.

2) Avoid writing wrong references.
2) Politic more weightage to expressedly asked

part/s of the question.

N/s has set a number of objectives to achieve and also the principles of through which these principles are achieved. The core objectives are conserved in of natural resources, sustainable development and efficient use and management of resources. The N/s must ensure that these objectives are achieved by enhancing Public-Private texthron partnership in development and environmental management. By merging Environment and Economics in decision-malling and by also focusing on durable 3m provements in the quality of life in Pakistan.

Objectives	Principles
-> Conservation of	
natural vesources	-> Achieving Public - Private Poertner ship
:0713	Production of the state of the
-> Sustainable Development	-> Merging Environment
a detailed usuka hija	& Economics
-> Efficient use and	\$ 7 co 0) -
management of	> 3mproving quality
resauves	of life
· Asking Times loughouse	of od loss
fig 1 Overview of	harded to
Objectives	
distribution in believe this	ting 211. AT
3) Key Aveas of Loncern:	The second
The said the last things	a ratification
The NCS has set priority of	the 14 following
aveas:	
-> Maintain Soil in Crop lands	
-> Protecting water sheds	6 The property of the second
-) Restoring vange lands	the colored was the colored and the colored an
-> Protecting wellands	
-> Protecting Energy Efficiency	
-) Urbun waste manerogement	
-) Integrating population and Envi	varment
-> livestock	
-> Support facility forestry	
-) grygation: efficiency.	All all and and
-> grigation: efficiency> Reservable evergy	
-> Conserving Bio diversity	
	GONALTY CHILD

-> Supporting institutions -> preserving rultural heritage.

4) Financial Assistance:

Pakistan veceived between 25to 35b \$2 to \$3 billion aid each year from some of the global Key global organisations such as Imf and World Bank. It also received alless to International credit markets.

5) Institutional components of NCS:

The NCS unit was created in Environment & Urban Affair Division (E.D.AD.), this was done to enable the copydination and monitoring of NCS Implementation: Process.

The NCS unit was also for managing an NGO Fund of staggering Rs. 30 million. This fund was to be used to vender financial assitance to NGO's in developing and implementing environment related projects.

6) Modus Ofevandi of NCS:

The NCS was able to locate the deep vooted problems that needed to be nipped in the bud. In alloyd with the At NCS rational The Primary agricultural non point source

Pollutants are nutrients, sediment, animal wasters etc. Agricultural non-point sources enter surface water through direct surface various farming methods: produce evosion which produces a sediment that can damage fish habitats. This affects changes to aquatic habitat like decreased oxygen. This ran lead to

The two key values, that the NCS determined cruised in transforming affitudes and practices were, the restoration of conservation ethic devieved Islamic moval values, ceantas, and, revival: of community spirit

Agricultural Polluturits (1) Enter water Source sediment, aniwastes (2), or see page

Changes aquatic hubitats 3 Eutrophication of like increase temperature = water Body derveused oxygen.

loss of Aquatic

fig 2. Overview of the Problem

7) Policies Adopted by NCS:

The NCS adopted policies in different sectors to mitigate the sitution. There are as follows:

7.1) Agriculture:

The avgvictural policy encompasses halting the over use of sol, frequent checks to determine degraded on processes, managing water no runoff and restoring degraded soil

7.2) Managines Soil/water Resources in griculted areas:

Controlling salinity, water logging and soil structure deterioration and preventing soil degradation processes.

7.3) Forestry:

Sustainable use of: fovest resources, thus promoting growth of younger stock. Also to perserve bodiversity perserve some old forests to perserve bodiversity

7.4) Rangeland Rehabilitation:

Facilitate private in restment in varge land development for commercial livestock.

7.5) Water Management:

Oncrease water charges for all formers to meet operating and maintainage costs-Also to seek solutions to salanity/ solution and water logging Problems.

7.6) Pollution Control:

Augment the use of coal for electricity to meet demand and reduce pollution.

by using least polluting behndogy. To develop alternodive sources to meet et energy demands.

7.7) Solid waste:

To promote veuse and recycling and also to effectively use of scavenging systems.

8) Conclusion:

In a nutshell, the NCS was a proneer of conservation strategy in developing world. It had the potential to mitigate the dire environment impact and weate a sustainable and environment (viendly Pakistan.



Q3) 1) Introduction:

Environmental Pollution is a big challenge for the contemporary world, as it impacts alsonost every aspect of daily lives. The modern world has just come to realise the dire effects of pollution on numerous life and therefore Yobust measure are under way to mitigate the situation. In this

2) What is Environmental Pollution:

Refers to an unwanted change in environment caused by the introduction of howmful matericals or the production of howmful ronditions (heat) (od) sound). It can also be defined as un desircable change in the physical, chemical or biological characteristics of air, water, and land that may be harmful to human life.or animals.

3) Key Aspects associated with Envivonmental Pollution:

Some emportant concepts realisted to pollution are as follows:

3.1) Contamination: making something unfit
for particular use due to presence
of undiverable material.



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3.2) Disease:

Im be Impalance between an organism and the environment.

3.3) Toxic Materials:

maderial that are toxic to people and other living organisms.

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3.4) Synargism:

produce a combinal effect greater than the sum of the effects of Individual substances

3.5) Area Sources:

Diffused over the land and include urban runoff and mobile sources such as auto mobile exhaust.

Toxic Materials

Synergism (Main Concepts) -> Disease)

(ontamination) [Area sources]

fig 1: Overview of Key (oncepts.



4) Effects of Environmental Effects:

(ategories of environmental pollution pollutants include persisteent organic pollutants, such as pesticides, doxins, heat, noise, air etc. Following are the type of environment pollutant and their effects:

4.1) Air Pollution:

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The WHO defines air pollution as the presence of materials in the air in such concentration which are harmful to man and environ ment.

4.1.2) Effects:

Air Pollution affects visual qualities, vegetation, animal, soils, water quality, natural and ortificial structures and human-haulth: Following is the weightage of gases that rause the major pollution

-> (0 (5890)... -> VO((.11%)... -). NOx (1590)

-) 56 (13 %)



4.2) Water Pollution:

Is the degradation of quality that renders water un usceble for its record intended purpose. The primary water pollution problem is the world is the lack of disease - free drinking water. Major rategories of water potterants include disease - rausing organisms, heavy metals, organic chemicals, acids

Y.2.1) Effects: Give subheadings for each effect.

Follo The dire effects include water-borne diseases, Evosion of soil, Deforestation damamage to aquatic life etc.

Soil Evosion)

closs of Biodiversity

Defovestation)

danger to Effects of aquatic life) water Pollution Effects of

Gastvo velated Problems

oil containing water Poisonous on birds (water borne diseases)

fishes animals.

fig 2: Effects of water Pollwion



4.3) Soil Pollution:

Soil Pollution is defined as contamination of soil system by considerable quantities of chemicals or other substances, resulting in the reduction of it fertility or productivity with respect to qualifative and quantilative yeild of crops.

4.3.1) Effects:

Soil Pollulion can load to food
shovtages · continous exposure of evoded
soil to & sun for longer perials
may transform into vocky in incluse,
vesulting in desertification of agricultural
land ·

4.4) Noise Pollution:

3

9t is defined as un wanted ov offensive sound that un reasonably intrudes into our daily times activities. Sound is measured in a unit called decibal (db)The permitted noise level is 125 decibals.



		Date20
4.9.1)	Effects:	
[Effects of	Noise Pollution can serious health and including but not disovientation, Nausea, stress, Distriction	hewe I scefety visks imited to causes accidents eziness etc.
Noise Pollution	Aiv. Neise Pollution Soil Bl	tution Soil Pollution
-) Dizziness -) Nausea -) Stress -) Mental disovientation -) Respiratory Droblems -) Deterioration in Lonceytration	-) loss of visual quality -) Affects vegetation -> Res pivatory Problems -> Affect animals	-) food shovlege -) decrease in agriculal land) Desertification
	-> Soil Evosion -> Water Borne instead -> Deforestation	
fig 3 :	overview of Env Pollution	PAPER PRODUCTS

5) Conclusion:

To sum up, thate Environmental Pollution can impart many aspects of daily lives and can result in many health and safety risks. Therefore meticulous planning and vobust measures are essential to curb the damages.

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Qt -07)

07) i) Introduction:

Eutrophication is a type of water pollution which, if left un monitored, can cause severe issues and load to serious loss of bio diversity.

2) What is Eutrophication.

Eutrophication is defined as a natural or artificial addition of nutrients to water bodies that can, with the passage of time, can pollute the water and cause massive biodiversity loss.

In simple, words, It is denoted by an the excessive plant and algae growth in the water bodies due to increased levels of nutrients it recieves in the form of nitrates and phosphatis.

3) Process of Eulvophication:

Fertilizers flow into water bodies cunt

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cause excessive growth in plant and alope in the water body. As the algae dies and decomposes, the high levels of organic mater and the decomposing depletes the water body of its exygen content. Furthermore, the algae covers the surface of the water-body, preventing the sunlight to peretrate. As the oxygen content decreases, the living organisms aqualic life does not receive adequate oxygen to sustain and therefore even tucully die

Fertilizers flow servessive Algae sun rays to yeach water bady

Plants start to Oxygen content die and decompose

Aquatic Life suffacates and dies

Fig 1: Process of Eutrophication

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4) Types of Eutrophication:

Eutro Philation is divided into two categories as follows:

4.1) Natural Entrophication:

It is the national entrophication of takes takes place with out any human influence. The Entriphication process begins and gradual proceeds slowly during decades.

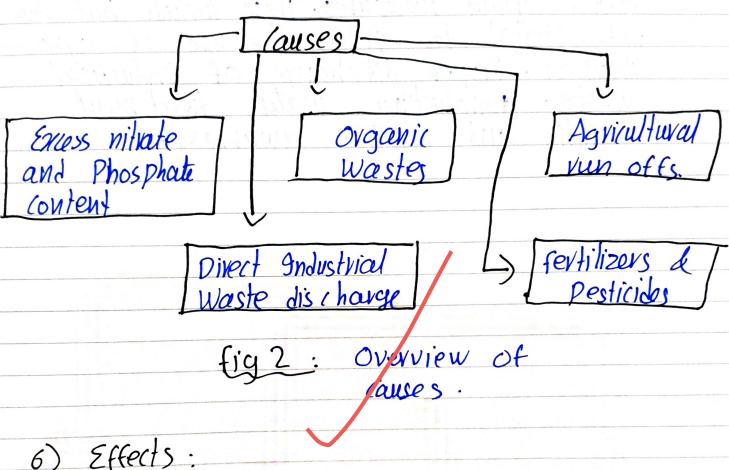
4.2) Cultural Entrophication:

9t is the process that is accelerated and exacerbated by human influences. Unlike the natural form, this process proceeds at an accelerated pace, taking only months to complete.

5) lauses of Entrophication:

There and sundry causes of entrophragion and some of them include.

sewage effluents, organic wastes, Agricultura run off ets



6) Effects:

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Detail? The effects include water clavity 3+ also affects the colour and taste of the water. As afovementioned it leads to a massive loss in Biodiversity

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7) Solutions:

The process is natural and will occur, eventual but the acceleration can be halted by taking certain measures. These include but are not limited to Reduce the use of agro—chemicals. Proper discharge of andwhial waste. Introducting water treatment facilities and vaising awarness.