DATE: 01 / 0/ / 2025	
What are the main causes of	
biodiversity Loss? How can we protect	-
and preserve biodiversity? (CSS-2023)	
() INTRODUCTION:	
Biodiversity repers to	e
the variety of living organisms, including,	
plants, animals, jungi and microorganisms,	
as well as ecosystems in which they exist.	
It encompasses the diversity of species, genetic	
diversity within species, and the variety of	
ecosystems and ecological processes. According to	5 1.0
the Convention on Biological Diversity (CBD):	
"Biodiversity is the variability among living	
organisms from all sources including, inter alia,	
tenestical maiere, and other agreetic ecosystems	
and the ecological complexes of which they are	
part; this include diversity within species	//
between species and of exosystems. The causes	
of biodiversity losses are habitat descurpon and	,
pagmentation, climate change, overexploitation of	3 -0
natural resources, pollution, invasive species.	
The biodiversity can be protected and preserved	
by conservation education and awareness, protection	
2 areas and conservation resources, international	
cooperation and policy frameworks, sustainable land	
and resource management.	A head
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II	

(ii) CAUSES OF BIODIVERSITY LOSS Change AUSES OF BIODIVERSITY 055 Over exploitation Invasive Species 1 - Habitat Destrustion and biodiversity loss Frag further exacerabates the problem

According to the United Nations, around 80%. of the Earth's terrestrial biodiversity is found in forests, which are being destroyed at an alaining rate. It is estimated that each year, we lose approximately 18.7-1. acres (7.6 million hectares) of forest, egrivalent to 2-Climate Change: Climate change, driven by human induced greenhouse gas emissions poses a significant threat to biodiversity Rising temperature, changing rain at patterns, and extreme weather event car disrupt ecosystems and after specie habitats. To can lead to shifts in species distributions, reduced productive success, and increased vulnerability to diseases. The Intergovernment Panel on climate change (IPCC) warns that it global warming exceeds 1.5°C above pre-industrial level, the risks to biodiversity and ecosystems will be severe. It is estimated that approximately one million species are currently at risk of extinction due to climate change 3. Over-exploitation of natural resources Unsustainable harvesting

of plants, animals, and other natural resources a significant diver of brodiversity loss. Examples include oversishing, illegal wildlije trade, poaching, and excessive logging. These webs, and after ecosystem dynamics. Programme (UNEP), over 30%. global jish stocks level je opardizing marine biodiversity and the livelihood of millions of people wh on fisheries. 4. Reputation Pollution water, and soil pollution, poses a trusat and haven species Pollution can also lead to habitat degradation and reduce the availability of clean water and suitable Pollution is a serious threat to brodiversity. It affects both agreatic and terrestrial ecosystems, disrupting natural processes and endangering countless species- (YNEP)

5. Invasive Species peires towards extinction These species ten lack natural predators and can Invasive species are one of primary drivers of biodiversity loss globally, posing a significant threat to native ecosystems, and special live (III) PROTECTING AND PRESERVING BIODIVERSITY Sustainable land and Resource Management and Reserving Biodiversity ROTECTING AN PRESERVING BIODIVERSITY Conservative Education International Cooperation

1. Protected Areas and Conservation Reserves: Establishing and effectively managing protected areas is crucial for safeguarding biodiversity. These areas can range from national parks and wildlife reserves to maine sancticaries. Protected areas provide habitats for species, help conserve genetic diversity, and open opportunities for research and education. "Rotected areas are cornerstone of global conservation exacts, providing safe heavens for biodiversity and ensuring the preservation of material ecosystems for future generations" (IUCN) 2. Sustainable land and Resource Management: Adopting sustainable and and resource management practices is vital to minimize habitat destruction and pagmentation This include promoting responsible foresty, implementing land-use planning, and supporting sustainable agriculture techniques that minimize ecological impacts.

"Sustainable land and resonuce management practices can help strike a balance between human development and the preservation of biodiversity

ensuing the long-term well being of both ecosystems" (FAO) 3. Conservation education and Awareness Enhancing public awareness and understanding of biodiversity is crucia its conservation. Education programs, campaigns and community engagement can promote sustain behaviors, reduce demand for illegal wildlife products, and joster a sense of stewardship Conservation education plays a vital role in empowering individual and communities to make informed chokes that protect brodiversity and contribute to the sustainability of ou planet (WWF) 4. International Cooperation and Policy Frameworks: and strong policy prameworks are essential you addressing bis diversity loss. International agreements such as the Convention on Biological Brodiversity (CBD) and Willmited Nations Sustainable development goals (SDGs) provide guidance and targets for biodiversity conservations. Protecting and preserving brodiversity requires

concerted exports and collaboration at	
all levels - local, national, and international-	
to ensure the execting implementation of	
policies and the mobilization y resources".	
(CBD)	
(IV) CONCLUSION:	
At the end, it is	
important to address these factors & biodivers	y
loss through sustainable land and resources n	
management, protected areas, conservation	
education and internation cooperation.	
Efforts must be me to raise awareness,	
promote responsible behavior, and prioritize	
the preservation of biodiversity to ensure	
a sustainable future por all life on Earth.	
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Vorvacod	
Very good	<u> </u>
CBD could be elabo	ated a
though	
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**CS** CamScanner