Envisonmental Science Shoot Note (5) Write short note on any Four (4) of the following a) CDM: the Clean Development Mechanism (CDM) is a system established under the Kyoto Pestocol to combat climate change by allowing industrialized countries to inver in esnission redowng projects in developing countries. These projects Can earn certified emission reduction (CER) Osedits, which industrialized Counteres can use to meet their Kyoto targets DM was established ender the Kyoto Peotocol, which entered into force in 2005

MITWIFS 2. Functioning of Clean Development Mechnism Industrialized countries invest in emission reduction projects in developing countries through the Clear Development Mechanism (CDM) These Projects Con Carn Certified Emission Reduction (CER) credits Counteres can use these credits to meet their Kyoto Protocol emission reduction taggets. One (1) Certified Emission Reduction (CER) chedit is equilibralent to one metric ton of Co; reduced "The CDM has not only Contaibuted to seducing emission but also to festering sustainable development Countries

MTWTFS Types of Clean Development Mechanism These are following mun types of CDM are as; i- Renewable Energy Projects: It is a Project like wind falms and Solar Penels generate clean energy. They reduce reliance on fossil fuels, lowering greenhouse gas emission As of 2020, China, Irdia and Brazif host the mojority of COM projects, reflecting there large benevable energy Sector 11- Energy Efficiency Implovement: The upgrading of industrial processes and building to use. ess energy. It reduces energy Consumption and emission, plannoting Sustainable Proctices Energy efficiency is not just low-hanging fruit; It is a ferit that lying on the gland Balak obs 111- Reforestation and Afforestation: Planting trees to restore degrades lands and create new forests It enhances calbon segrestration, implouring and quality on biodiversi 74 A nation that desteoys its Soils desteoy itself, forests we the lungs of our land, pusifying the air and giving fresh strength
to our people (Franklin D. Rossevelt The CDM serves as a Crucial tool in the global effort to mitigate Climate Change, planoting sistemable development while facilitating the reduction of green house gas emission through impustive and collaborative projects

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Grenetic Pollution: Grenetic Pollution refers to the uncontrolled and unintended spread of genetically modified organisms (Grmos) into natural ecosystems, leading to the mixing of modified genes with wild populations. This Phenomenan occuss Through mechanisms Such as Closs-pollination between genetically engineesed esops and wild relatives, or the escape of GMOs from controlled environments into the natural world. "Genetic Pollution Con be as hasmful as Chemical pollution altering the natural eeosystems" (David

MTWTFS Functioning of Grenetic Pollution. The Deimosy Concerns associated with genetic Pollution include the potential for loss of biodiesity as genetically modified traits may spread to native species, potentially dissupting natural eeosystems The Paoblem with genetic pollution is that once the genie is out of the bottle, it is very hard to get it back in (Mask Lynas) Additionally, These are worstes about the creation of Superweeds Superpoests that might sessistance to herbicides develop and resticides due 10 the introduction genetically modified traits wild population. into

DATE: \_\_/\_\_/\_ 3. Benefits of Genetic Pollution The modification has potential benefit of genetic Pollution Such as; 1. Improved Clop Yields = The introduction of genes that enhances (80) Productivity con lead to higher yields which is essential for meeting the foods demonds of a growing global Population. The introduction of new gener Con Sevitalize Plant valities and enhance there ability to withfand diseases and environmental stresses (Nooman Bollaug Pest Resistance : Genes that give resistance to Pest con spread from genetically modified clops to related wild of tecditional valieties

DATE: \_\_/\_\_/\_ MTWTFS It reducing the need for Chemica pesticides and promoting more sustainable agricultural Practices. Genetic advancements holds the Potential to unlock new levels of agricultural Productivity and environmental resilience" (Rosalind Franklin However, monaging genetic pollotion beginses to strengthen segulation, monitoring end beseasch to balance These benefits with the Deservation eeosys Tems there is too much detail for 5 marks note if there are 4 in 20 marks then max 3 sides for each note 20 marks ans must not exceed 8 9 pages be precise and to the point in note answers

8/10 ans are fine and satisfactory but too detailed reduce the commentary