

Controlling Vehicular Air Pollution Imparts distinct Colour Water bodies, Detordate Water Quality, Cause fish G All buses of Delhi were converted to mortality. own on CNO by end of 2002. (+) World's Most Problantic Weed Why CNO Better than Diesel & -Water Hyacinth (Eichonia Terror of Bengal Crassipes) of it is left unbount > Introduced in India for its beautiful - CNCi is cheaper than petrol/diesel.

- Cannot be siphoned off by Thives or adultured. flowers, caused Havoc by their excessive growth. Sewage from Homes and Hospitals EURO III Norms > Sulphur Controlled at contain pathogenic miero organisms. Is posal to water w/o peroper treatment Goal acc. to 150 ppm - petrol. roadmap is to Aromatic Hydrocarbons Reduce Sulphur - 50 ppm petrol, 12/10 can Cause -> Typhoied, Dysentery, Chlora, Joundice Aromatic Hydrocarbon - 35% (Biomagni fication) Types of Vehicles Norms | Cities of Implantation Increase in conc. of toxic substances at 3 Wheeley 11— 13 Since April 2014 4 Wheelers Bharat Stage successive Temphic Level. e.g. - Mecury and DDT. -> Toxic substance accumulated by an 1st april 2017 organism can't by metabolised excuered. Thus, passed to next level. nows Wheders High Conc. of DDT in birdy-disturb Calcium April 2017 meta bolism pre-mature thinning of egg Domesting Sewage and Industrial Water Suspended Solids (eg. Sand, Slit, Clay decline in Bird population. cutrophication -natural aging of Dissolved materials (eg. Nutrients) lake by nutrient enrichment of its (nitrates, ammonia, phosphate, Sodium, Calcium) Tt takes thousands of Years. 4 Colloidal Material ter (eg. Fae cal matter, Bacteria, Cloth, paper fibre Cultural or Accelerated Eutrophicat. → Amount of Biodegradable Organic material is Sewage by measuring "Biochemical Oxygen Demand" (BOD). pollutants from Home and Industries can radially accelerate ageing process. prume contaminants are Nitrates Biochemical Oxygen Demand. and phosphates - plant nutrients. Dacteria to completely dequade amount of Pollutants > Nitrates phosphates (plant nutrients) Other Pollutants organic matter present in 1h of water Poison whole population of fish in lake. There is show decline in Dissolved 11 growth of algae Oxygen downstream from point of sewage discharge. This causes montality of Decomposit of their Growing algae utilises disolyed O2. aquatic organisms. dead remains further deplet the water dissolved > deficiency of 0, to aquatic Algal Bloom - Excessive growthat Oxygen planktons (free floating algae) in water bodies due to presence of excessive nutrients. Lake choke to death.

Green House Effect and Heated (Thornal) Waste Water Global Warming) a flowing out of Thermal Power Plants. queen House effect is natural occurrence phenomenon, that is responsible for > Eliminate Reduce no. of organisms Sensitive to High temp. Heating Earth's Surface and Damage to indigenous flora and fauna. atmosphere. W/o queenhouse effect, Earth's temp Kernedy for Plastic Waste @ (= -18°C) Polybland - Fine powder of recycled Polyblent Used to lay Roads in Banglore with Greenhouse effect, Earth's ten-1= 15 6 m CFC 14% CO2, Methane, N20, are Bitumen Polyblend enhances Bitumen Increased Road like by 3 times Ahmed 2010 60% responsible for Greenhouse effect. Agrochemicals - Inorganic justilizers IT level of Queen house gases 2 pericides used forenhancing crop production are Toxic to non- Target Heating of Earth Organisms. Organic forming - Zoro-Wast procedure Global Warming Odd Climatic Change Melting of Wast products from one process are cycled as nutrients in other process. polar ice caps (Elnino effect) -> During past century, Earth temp. has Tse by 0.6°C (Ramesh Chand Dagar) -How Can We Control Global -> Bee-Keeping in a chain of processes, O Cutting down uscof fossil Warming Daving Management which support each other 2) Improving efficiency of energy usage > Water Harvesting | → Integrated Organic parming -Compositing 3 Reducing deforestration. (Horyana Kisan Club) Max utilisation of 9) Planting more trees. resources. 5 Slowing down use of Human Ozone Depletion Ise efficiency of product? Radioactive Waste - Challenges of using Nuclear energy Good Ozone Bad Ozone Accidental Disposal of radioactive Formed in upper formed in lower atmosphere atmosphere. Three mile Island 7 Stratosphere Touphosphere - Chernobye Incident \ Vimp Ozone act as shield absorbing - Bhopal gas Tragedy) Harm ful UV radiations from Sun Radiations from At higher doses - Lethal Thickness of Ozone is measured Nuclear Wastef At lower doses - Causes in Terms of Dobson Unit (DU) cause mutations at very high rate. Clorofloro Carbons (CFC's) -1se Ozone Hole) sus 2 Ozone depletia -> Nuclear wask should be pre-treated and then shielded in a container and Resulted in formation of Large build within Rocks (500 m deep area of thirmed Ozone layer Below Earth's Surface) over Antarctica. also thoke is death

By Nater (Prevention and control of UV-B Radiations raging of skin pollution) act -1974 Inflammation of Counca (Snow Blindness) 4) Montreal Protocol - 1987 at Montreal ETo control emission of Ogone depleting Deporestation) Genversion of forested area to Non-forested National Forest Policy (1988) of area.

40% - Forest loss in Tropics.

Recommended 33% forest India.

Covers plains. in Hills. 67% porest cover in Hills. 1% - Forest loss in Temperate To beginning of 20th Century forest Integrated Waste Water Treatment Waste water can be treated in an By end of 20th century, it shrunks to integrated manner, by utilizingamix of artificial and natural processes. Slash and Burn Atgriculture Biological Method) Conventional Sedimentation Farmers cut down trees of forest and Biologists develops a Burn plant remains Futering and Series of 6 connected - Land used for forming / Cattle Grazying chlouine marshy over 60 Hectares meatment → Ashes used as fertilizers. of Marshland. are ven. - After Cultivation, area feet for years -Appropriate plants, fungi and bacteria were seeded to recover. into this area which (onsequences of Deforestration. (FOAM) neutralise, absorb, (friends of assimilate pollutants. 2) cause soil exosion and descrification. Aracta Marsh Marshes also contain a 3) Disturb hydrologic. Cycle. sanctury with high level 4) 11 CO2 concentration in atmosphere of Blodiversity Amerita Devi Bishnoi Wildlife (Eco-San Toilets) Protection Award -Practial, efficient, Hygienic, cost effective solo to human waste disposal. for Individuals / Communities from Rural area, they shown extraordinary Courage and dedication in protecting Human excreteg is recycled into natural pertiliser. Wildlife. -> Sustainable system using Human hipko Moment In Garhwale Himalyas, 1974 Exercitia using dry composing toilets. Local women showed breavery in profecting · Working in many areas of trees from axe of contractingter by Ser Lanka and Kerala Hugging them. Electronic Waste (e-waste) -> Joint Forest Management (1980's) Buried in landfills incinerated. Govt of India worked closely with Waste. Biodegradable

Recycleable

Non biodegradable. local communities for protecting and managing forests Water logging and Soil Salinity In Return, communities get benefits Ivuigation w/o proper drainage af of Various forest preducts. water leads to water logging DEnvironmental Protection Act-1986 Air (pre vention and Control act)-1981 Camended in 1967 to include noise as air

Waterlogging draw salt to swiface of Soil
Salt then start deposited on land swiface
Tree salt Content, bee crop growth.

Imp-El-nino effect-melting of îce caps Odd climatic Conditions



