ASSIGNMENT 4

classmate

Date
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Environmental Pallution Unit-4 Write defference between pollutants and Q.1 pollution with examples in built Prollution refers to the presence of substemces or energy in the environment that cause harmful offects to living organisms and the natural world. the natural world. Enamples: dir pollution caused by emission from cars, factories and power plants. Water pollution caused by sewage, chemicals and other containments. -4 Pollutants refers to the specific substance or materials that cause pollution. They can be natural is man-made Examples: Carbon Monorade (CO) from vehicle enhausts. Lead (Pb) from Industrial Activities Mexicury (Hg) from coal-fired power plants. Detail on dire pollution. Classify its pollutants Q.2 dir pollution is the presence of harmful and unwanted substances in the air or extmosphere. These substances can be gases, particles or beological molecules that have a negative impact on human theat health and the Environment. Dir pollution can cause a range of health problems like respiratory & heart diseases, Stroke and cancer. It can also damage crops, forests & other ecosystem. dir pallutants are classified as primary and secondary pollutants.

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Burnary are pollutants are emitted derectly unto the atmosphere by the overginal source For example: COD, NO, SOD, CO, CFC Secondary sair pallulants are formed because of the reactions between premary pallulants and other elements in the atmosphere, for example: Ozone, Acid Rown Enlist soweres, causes and effects of water 9.3 pollution. Water pollution occurs when contaminants are introduced into the water bodies causing haven to the environment and living organisms. Sources of water Pollutum in i) Inclustrial Activities: Mining, Manufacturing and oil & gas drilling can release to suic chemicals. ii) Agriculture Practices: Pesticides, hérébicides and fertilizers used in agriculture can contaminate une water bodies (grundwater) iii) Municipal Wastewater: Sewage and wastewater from homes can conteun beicteruce, vixuses 10) Oil Spills: Accidental vil spill from offshare dulling or transportation. 0) Landfills: Can release pourlants such as chemicals, heavy metals and pathogens i) Point Source Pollution: Pollution that comes

from a single source like discharge pipe ii) Non-Point Source polletion: Pollution that comes from diffuse sources like agricultural sunoff.

Effects of water Pollution; a i) Harm to Ecosystems Ii) Public Health Risks in Economic Impacts

in) Depletion of water Resources

0) Habitert Destruction.

Soil Pollution: Pollutants and Effects. 0.4 Soil pollution is the contamination of soil

by harmful substances that can have

negative effects on enveronment, human health

and easystem functionality.

Pollutants of Sail Pollution;

i) Fleavy Metals: Like lead, cadmiim, mercury from mining, sewage sludge & industrios.

ii) Pesticicles and Herbicicles: Chemical used in

agriculture to control pests and weeds.

iii) Petroleum Products: Oil spill and leaks

grom underground starage tunks.

in) Polycyclic Dromatic Hydrocarbons (PAHS):

Formed during the incomplete combustion of

fossil fuels.

1) Chlorinated Solvents: Such as Trichloro ethylene

CTCE) and Perchloroethylene

vi) Radioactive Substances! Such as wannum, radium and resium

Effects of Scoil Prollition:

i) Reduced Doil fertility

ii) Contamination of groundwater

iii) loss of Biodiversity

iv) Public Health Risks

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Define Noise what are the controls methods

Noise refers to any unwanted we incessive sound that interferes with communication causes annoyance or has negative effects on human health.

Control Methods of Noise Pollution: i) Noise Reduction: Acheeved through the use of quieter machinery and equipment and by implementing noise reduction measures such as unsulation and vibration damping. ii) Noise Absorption: Use material such us accountic panels, wetains and baffles, These are unstalled in building, rehicles etc. to reduce the amount of noise transmilled. iii) Noise Barriers: Such as walls and pences can be exected to block the trans mission of sound waves from the surrounding. is) Land use Planning: used to ensure that the noisy activities are located away for prom resendent resedential areas, schools and hospitals, through zoning regulations and building codes

(3) Education and Awareness: To promote the

importance of noise pollution ientral and incourage undividuals to take action to reduce noise pollution.

Emplain Nuclear Hazard.

Nuclear hazard regers to the any situation ior event that involves the release of readioactive. material from a nuclear facility such as nuclear power plant, a research reactor or a nuclear weapons facility.

Nuclear hazard can varise from a traviety set causes like equipment failures, natural disasters, human errore and delibrate acts of sabotage or terrorism.

The heath effects of muclear hazards can vary depending on the nature and extent of the release. Acute readication sickness can occur in undereduals who are exposed to high livels of readication in a short period of time and cause nausea, comiting, deather diarethea and fatigue, long term exposerre to lower levels of readication com increase the risk of cancer, genetic mater mutertions etc.

go mitigate the risk nuclear facilities are Subject to strict sayity regulations and emergency response plans involving the evacuation of affected populations, the provision of medical breatment and elecuntamination services and the iontainment and eleanup of readioactive material.

Q.7 Short mote on E-waste.

E-waste or electronic waste, refers to descareded devices such as computers, smart-phones, television and other electronic equipment.

E-waste is growing emvironmental problem due to the rapid pace of technological immovation, which has led to a high Twinover of electronic devices and an increasing amount of electronic waste

E-waste contains hazardous material like lead, cadmium and mercury, which can pose significant risks to human health and environment if not managed properly.

To address this excounty problem, many countries are promoting the responsable disposal and recycling of electronic devices. In addition, many unitatives and programs that promote the reuse and reguling of electronic devices, such as refurbishing and reselling used electronics or recycling them for their components parts.