

Environment & Ecology Assignment

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Al- Define cosystem. Discuss also the structure and concept of ecosystam. and the physical environment with which they interact. These biotic and abiotic components are linked together though nument cycles and energy flows - Ecosystem are controlled by external & internal factors. concept and Structure of an ecosystem living organisms can not live isolated from their non-living environment because the datter provides materials and energy for the survival of the former ice there is inknown behveen a biotic component and its environment de produce à stable system.

(1) ABIOTIC COMPONENTS The non-living factors or the physical environment prevailing in an ecosystem from the ablatic components

Leosystem has two main components:

They are of 2 types: all mate factors - It anchedes rain, temperature Might, wind, humiding etc.

factori: - It theleder soil, ph, topography o minerals de

Blotic components. (ii) The eiving organisms including plants, animale and intercoorganisms (bacterial fungi) that are present in an ecosystem from the biotic components.

On the basic of their role in the ecosystem. three main groups:

- Producere :- Includes autotrophs such as plants. They produce their own food with a process old photosynthesis. All the organisme higher up on the food chain red on broducers.
- Decomposers: Includes saprophytes such as fungi and bacteria. They directly thrive on dead and decaying organic matter. matter.
 - There are two types of ecosystem
- (1) Terrestlal ecosystem They are exclusively land-based ciosystems there are different types of terresteal Type of terrestal ecosystem based on geological Lones-
- forest ecosystem
- Tundra ecosystem
- (iv) Grassland ecosystem.
 (iv) Desert ecosystem: They are consystem point in a body of water. They can be further divided into two types
- Frishwater ewsystem (ii) Marine ecosyetum

Classmate O

postures about the Ecological Succession.

Just Ecological Succession is the Steady and gradual change in a species of a given area with respect its to the changing enfronment. It is a predictable change and is an incitable process of nature at all the blotic components have to keep up with the changes in our environment.

There are three types of ecological succession

2) Primary Succession: - It is the succession that stark in lifeless area such as the regions devold of soil or the areas where the soiling unable do sustain life

Je this primary ecosystem is destroyed, secondary succession takes place.

Descendang succession: - A climax community gets destroyed by fire. It gets recolonised after the destruction.

O cyclic succession: This is only the change in the structure of an ecosystem on a cyclic basic. some plants remain domain for the rest of the year and energe at all once. This drashially changes the structure of an ecosystem.

Example: - Acadea Marional Park, Reological Succession of word refs

Main cause of evological succession include the biotic k abiotic foctors that can during the Population of an area.

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und

Unit-2

BI- Discuss about the water borne disease.

write down the water borne disease and water Induced disease.

Ahs: - Disease caused by ingestion of water contaminated by human or animal faces by wrine which wonlain pathogenic organisms.

Disease that are transmitted by water an

- Diarrhocal water-borne déteale: Most water borne pathogene infect the gastrointainal and cause diarrhoed direase.
- (1) Non- Diarrhocal water-borne diseasewhile most water borne pathogens cause diarrhocal disease, a few important water-borne diseases affect other parts of body.

Dater-borne disease

Disease caused by ingertion of water contaminated by truman or animal facus of unine tholera, Typhoid els.

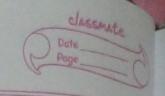
water induced disease.

Cause of water related disease include micro-organism paralites, toxing & chemical contamination of water.

Ly schisto somiosis, pracuculiasisch.

92- Draw the figure of carbon, wirrogen and sulphur cycle Carbon yule 3102 E Respiration organic Photosynthesis Animal [Factory] carbon Dead organisms Decay organisms Fossil fuel 1 Mirogen cycle. > No in almosphere Tree Mitrogen fixation Nirales Protoplash (plant) Protoplasm ((Ahimale) Ammoni-Minipation [Minipates] [Ammoria] 6 stication Mimbriation Almospheric & industrial fixation

classmate



) sulphur cycle.

Assimilation Decomposition (protein)

Plants bacteria

SH

SH

SOy

Reduction

Anaerobic Respiration.

Lithotropic bacteria

Photosynthesic

bacteria

Unit-3

Discuss about the water pollution and Noise pollution. Write down the permissable limit of Noise pollution for all the land we pattern.

Aus: - Water pollution: -

It happens when stoxic substances enter water bodies such as lakes, given bound on getting discolved in them dying suspended in the water or depositing on the bed. This degrades the quality of water, It is caused by mostly city sewage and industrial waster discharge. Indirect source of water pollusion are contaminants that enter water supply atmosphere via rain.

Noise pollution. It is generally defined as regular exposure to elevated sound levels that may lead to adverse effects in humans or other living organisms. According to who sound levels also than Fods are not domaging to living organisms, regardless of how long or consistent the exposure is turnan diseases caused by this are hypertension, sleep distirbance, hearing lossed.

The central pollution control board (CPCR)
has dard down the permissible noise
level in India for different regions areas.

Rone Permissible hoise Permissible hoise level standards level standards at night.

CdB) (dB).

Industrial Zone IS ST Commercial Zone 65 UT Residential Zone 55 UT Silent Zone 50 UO.