NAME: ANANYA PRASAD REGNO: 20BCE 10093

SUBJECT: CHY 1002

FACULTY: DR SUMIT MITTAL (A11+A12)

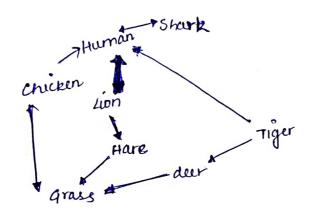
2+ FOOD CHAIN: Different species of flora and fauna together form a food chain. by einiting the A food is also complex and includes less complications humber of organisms

grass --- Vutture.

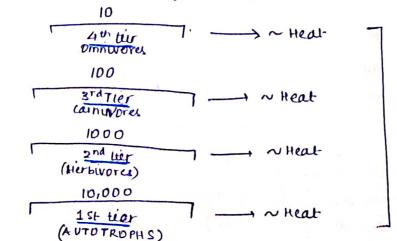
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FOOD WEB: when different food chains overlap and form a complex connection of who eats whom, is called a food web.



According to second law of thermodynamics, whenever there is flow of energy, some energy is always lost. So as the chain progresses, less energy is the next tear. similarly, in the case of food webs, the complexity delivered to is high and it requires many autotroughs and first and second their organisms sustain a food web. No food chain or food web is observed having any more levels than four or give tiers because of their reason.



Decomposers / Detritiones Scavengers

FOOD CHAIN >> Fallen laves 3

→unsectlarvae → birds → Bacteria → faller claves –

PTO

REGNO: 20BCE10093

Ecological succession or biotic succession occurs when the dimax community of a particular region is erased or disturbed. It also occurs in the regions where to life form has ever bloomed. For eg: Volcanic eruption sites, floods, forest fires etc. In the giver question the steps of ecological succession on a bare rock at the depicts primary ecologicae succession as no cife form hasbeen present from before.

Lichen formation (PIONEER DEGANISMS) - they are the organisms which drive the ecological succession. They are large in number, multiply immediately, and does but fast. When they sie, they produce dead organic matter, and increase soil formation Slowly, the soil becomes fertile and microplants and grass appear. Slowly insects and small animals also become a part of the habitat.

The pond also shows secondary ecological succession as the pond already has water Eclian water). The water

Slowly the ecological succession escalates and trees and big animals appear taking the ecosystem towards a climax community.

A climax community is a community where all the biotic and abiotic components are present in perject balance and complete harmony. No more ecological succession can take place until it is disturbed or harmed by natural or arthropogical sources

ADVANTAGES

- Rapid production increases sales, more money earned in less time.
- cheaper in price, more quantity.
- Reduce world hunger.
- Requires less food, more production in less investiment.

DISADVANTAGES

- Possible health risks, if not tested property.
- -> Depletion of original salmon species, maybe extinction of the original as the new could have traits to survive over original.
- + long term effects of unknown hazards. (long turn health effects)
- Give new allergies or new diseases if a person doesn't know about the changes made in the fish and is already allergic to some trait.

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Various cources of different levels of sediments in a water body are: Servage, human and animal waste, pulp mills, industrial waste, agricultural waste, fertitizers, soil erosion, sitt, poor chemicals and toxins from homes and industries, farm waste surbanisation among many others.

The sever of sedimentation effect an ecosystem by many means. It effects the aquatic system (decrease in population of fishes), change in migration rate, change in currents in some area. It also hads to coss of sea fauna and alteration of the coast. sedimintation also makes it difficult to clear polluted water. There is loss of coras reefs in places such as austrailia due to the exessive level of contamination. Many measures have been taken to protect it.

Can cause to the environment and the mankind.

RISK MANAGEMENT: It is a process of deciding and implementing the measures required to reduce a risk to a very small number.

- -> In the given question, to alsess the risk:
- * HAZARD: Spread of COVID-19 women the courge reopens after March (Nine-months)
- PROBABLITY: Very high sceing the present condition of the country, where the numbers aren't decreasing and new mutants of the cov16-19 virus seen around the world, the risk is HIGH. but, We have vaccined ready, but still, there is still time before they are provided to everyone.
- * CONSEQUENCES: Major chunks of old faculties and youngsters can get covid positive and it would cost money and resources
- -> Risk management here:
 - comparison: The spread of covid-19 after all keeping all rules and regulations is a little difficult, but not impossible. Social distancing, use of masks and sanitizes would help but cannot minimise the risk to very LOW.
 - * REDUCTION AND STRATEGY: To reduce and risk to VERY LOW and for the smooth functioning the courge should:

Mandatory covid-19 tests at arrival

Proper note of anedical history and diseases

Should have a dedicated medical team.

Dormitories and hostels should not be stuffy

Awareness and strictness in students about the pandemic.

Faculty members being aware too

2 Proper and complete use of masks, gloves and saniticers.

→ Follow social distancing -

FINANCE: A good fraction of money for health care professionals

- Funds for masks, gloves and sanitizers.

- sanitation of class nooms, labs etc

- her Information spreading Online, offline sources etc

Hg (Mercury) is low in concentration in sea water as it can cause various threats as it is a toxin. Algae absorb mergeury in the form of methye mercury, which is very dangerous. It can cause brain damage in babies. It can also harm heart, kidneys and immune system of the body. Still, more than Ippm of mercury concentration is present in share, which is a fourth tier organism in the food chain. It is because of the process of Biomagnification, when the toxic mercury enters algae (as algae absorbe it) it doesn't know what to do with it and transfers to the next tier. The concentration builds up and reaches the snark att the fourth hir in the good chain.

The hydrological give (the ocean currents and the movement of waves) depends on temperature, climate. But due to global warming and the climate change, all these things will change in the upcoming years. It would effect the overall temperature of the ocean, the sea levels would rise due to the meeting of permafrosts, the currents would change, the fishes migration rates would change, the evaporation rates and everything would change This would cause severe floods and droughte in different parts of the world.

END