TERM END EXAMINATION

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SUBJECT: CHY1002

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SLOT: A11-A12

DATE-25 Jan, 2021

The seast stranger and not advanted to the selections of the

1 (a) Biodiversity is the variation of Earth species, genes and the ecosystem they are present in and the netrition cycle they follow along with the energy flow that takes place in the hierarchy. There are—inree levels of biodiversity => GENETIC BIODIVERSITY: It is the difference in genes of the Same species. These differences range from colour, shape, size and colour. These usually occur when a particular species adapt its diving according to the ariotic components. If a species lack genetic biodiversity, the species would not be able to survive in harsh/extreme conditions and may even become extinct.

SPECIES BIO DIVERSITY: It means the number of different organisms present in a particular area. It depends on the temperature and escation. More the number of variety of species present, more species it is eg different animals, plants present in an area-desert, rainforest etc.

It depends on number as well. For example, if in a given area, 2 birds pecies and 3 hospitalish species are present whereas some other area has 5 bird species, the first location is more species diverse.

EcosySTEM BIODIVERSITY: As Earth has different geographical conditions every nonine omany different ecosystems are formed, which are home to different kind of feora and fauna. It is the group of species living in a particular area, share resources and interact with each other. It means a group of ecosystem present in a region.

ey Propical ecosystum.

200 RISKS ASSOCIATED WITH MANAGING WASTEFROM -HOSPITAL:

Most waste generated from hospitals is non-biodegradable-plastic and metal Waste: It can also include small amounts of chemical waste.

To manage this waste -

As this waste can be hazardous, it should be kept properly segregated and should be observed properly as it can be an infectious waste.

Storage area should be clean and protected from bacteria to prevent spreading

any aument. transportation of waste regularly in leak proof bage. in the

The wasto should be deposited accordingly. If its plactic and metal, it can be sent to an incinerator. If it is chemical warte, it should be taken care accordingly

KITCHEN

kitchen must mostly include dry and moint waste which is biodigradable but lime It can have hazardous substances if not separated from before. The plastic containers can be recycled to save resources. The moist waste could be used to make compost and can be used as manure (vegetable peels etc). Waste containing heavy metal. and all should be disposed in a landfill or sent to an intenerator. It can include NUCLEAR POWER BLANTS Old balturis, chaning liquids. If the waste is not disposed, there are toxicity nazards, fire hazards and explosion hazards possible

NUCLEAR POWER PLANTS

nucuar poncer plant waste coss include radioactive substances which can deposit cause a lot of norm to humans as it effects the DNA. It has biological effects (neurologicae, genetic and many shoturm and long term effects) To manage this waste, it should be contained in radiation-shilld containers and buried in the ground. The waste should be isolated in morremote locations The waste should be limited as much as possible.

3 6

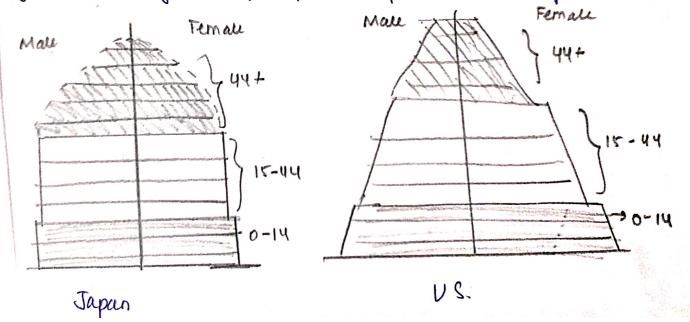
Major componente of population growth are - (3)

birth rates - number of births per unit wine in a given area.

cleath rates - number of deaths per unit time in a given area.

Limiting tation - Number of people leaving a particular place in a particular limit emmigration - Number of people coming to a place in a particular limit population - Change -> (birthe + immigration) - (deaths + emigration)

Age structure pyramid of Japan (example) and us (example)



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The Japan age graph is a stable graph and the US age graph is a expanding graph but it is expanding slowly. The birth rate is more in US as well as the death rate than Japan. The factors of high birth rate are high fertility rate, ammigration werbanisation and education. Factors which affect the death rate include, infant mortality rate and poor like expectancy, we can conclude that Japan has high life expectancy due to better life style, medical care, contiain and better nutrition. The rise in number of people of reproductive age in US is because of amor currival of immigrants from all over the world for religious and poutikal freedom and in search of employment. Japan has more people in post reproductive age due to higher size expectancy.

Forests would respond very drowtically to the currate change: At this pace of dimntishing, there would be night rise in disprestation and sprest digradation. In Areas with rich biodureristly, flored and fauna, all will start to die and decline. Forest landscapes would die as the temperature would soon become unfearable with time. The plants and organisms would try to genetically modify themselves and maybe new genetic biodiversity occurs, but with time it will also seaze as the conditions would become adverse. For example, a treet which flourishes in tropical regions would try to adapt before difing completely to suit the higher tamperatures, but eventually it would die.

4B

Nutrients, temperature, CO2, 14,0 and light are the determinants of productivity in an ecosystem. Effect on -

PACIFIC OCEAN > Nutrients > As it is the sea, full of salt water, it has many chemicals present in it. Nutrients come from bottom of the sea (floor) and from the run offs, They are the highest in the coastienes. Light is present in the shauow side others use the energy of exidation of chemicals under the same. Temperature is warm and cold both, depending on the depth. So we can say, that it is a highly productive area. It is most affected by neutrons.

STREAM: Streamware nation and shallow than ocean. Nutrients are present because of the land runoffs. Medico. and o2 is present in plenty in fresh water. Light is abundant as it is shallow. The temperature is favourable for a good aquatic life. It is a medium productive area. and is most affected by light and least affected by nutrients.

As the CEO of a private section company, I would choose an energy source which is cheap, renewable and easy to obtain. I would try to have suttainable

solutions over non-renewable sources of energy

· I would took out for more full-efficient appliances.

Try to reduce pollution and health hazards

energy cources such as solar power plants, wind energy and biomais energy can be used if the office is located away from waterbodies, or else tidal energy and hydro energy can be also used.

5 (B) strategies to impument the environmental impact assessment

developmental projecti First the project is screened to check if it requires environmental dearance or not

. It is then assessed to see the issue it will address in the study

A base data is colleted and monitered regularly of the invironmental status

of the area.

After all-truce steps, impact prediction occurs. It is the assessment of impact of the project - directly or indirectly. All points are considered, merits/demerits and reversible and vireversible impacts.

The miligation checks the report and suggest changes and alternatives

Then the public is informed (in the form of environmental groups and association) and asked for inputs and any further changes.

The project proposer and the accomment authority then come to final point after

a thorough divension.

Monitaring the previous base data along with the operation time of the project. finally a risk assessment analysis takes place to sheck it any hazard could occur or not.