Odd-2024 Assignment - 1 Brech SectionG The hilly region of Chhota Nagpur area was used to was a good forested area towards the turn of the century and received fainly brequest showers favouring tea plantations. Following the destruction of sonests, rainfall declined in Chrota Nagpur to such an extent that tea-gardens also disappeared from the region. undisposable gullicial and - investori 2) Burning of Ho gas in presence of airs forms water, which has high heat capacity water water absorbs IR radiation of and vapour strongly absorbs IR radiation of and acts as a heat reservour leading to global warming 2H2+02-> 2H20 3) Surface sining leads to large amount of top soll 125 removed during such mining. top soil Sub-surface mining surface mining

A) In 1960, the Indus crafer treaty was established, where Indus, Thelum and Chenab were allocated to Pakistan and Sathy, Rawi and Beas were altocated to Sordia. Since Plinjab is an offer against trade, India has pre-emptine oright to construct barrages across all these owners in Indian territory. However, the treaty requires that the tree three owners allocated to Pakistan may be used for non-consumptive perspose by Indian in without changing its flow and quality.

B) The In ornioro During microbial-leaching technique the bacterium This bacillus ferrosidans has been successfully and Economically used for extracting gold embedded in mon sulphide one. The ones are moculated with the desired strains of bacteries, which remove the impurities, like sulphum and leave the pure mineral

6) Organic washes are generally insoluble in water. Water, but acid (Hoscij) is soluble in water. Since soll acts as a filter, it can filter out the organic washe, but not the acid

freques manne

solve be

HORTHY.

odd-2024 Assignment 2 B. Tech Section- 4 DO3 serves as a rescuer of biosphere while present in stratosphere due to absorption of harmful UV rays (around 300 mm) generating o radical and 02 molecule. On the other hand, it acts as a potent pollutant in troposphere, she it leads to formation of photochemical smog. In stratosphere: phore:
03+ h2 308mm 0+02 Reactive hydrocantion

J 03

RCH2 PCH202 In troposphene not not be the production of INO. NO2+HO
NO
HOLL
NO
HOLL
NO Hoz + Consideration of the point of the poin RCHO (stable aldehyde) (2) Soot is a highly condensed product of polynuclean aromatic hydrocanting (PAHs) consisting of several thousand interconnected crystallites, Smer soot has very large size, it is distreult to perebrate. But du no large surface area, Soot acts as a carrier for hor pollulants, like Be, d, cr, Mr, benzox-pyrene, etc. Therefore, soot is highly achie pollulant.

- 3) B Sample B is more dangerous, since it contains 5% co. Since the binding capacity of co with havemoglobin is very high send it leads to sen stops the supply of of m various body fissues, and Therefore Sample B is more harmful
- The there is no CO2 in the air, air cannot preserve temperature and therefore, at night, the earth surface would be comes very cold, which becomes unsuitable for wing beings.
- B) pholecular Hz is has very low molecular weight and therefore, it came has high escape velocity. So most of the Hz content of earth's almosphere escapes box resulty into very low content of free Hz. On the other hand, it is present as compounds in water, acids and hydrocarbone
- responsible four stone leprosy oxiginaling Bom
 Phile Containing Coal.

3 feb_ + 802 -> fe30q + 6 802 2502 +02 + 2H20 -> 2H280q -> acrel ram

5 dd-2122g Assignment -3 Bitch Section-G 1) If there is no Hoo in the air, air cannot preserve temperature and therefore, at night, the earth surface would become very cold, which becomes unsuitable for living beings. à Arsente contamination is mainly originated from over Willitation of ground water to that the In this process, the Arrisente layer of underground is exposed. Arsente accumulation from polluted water can result in skin lesions and ultimately 3) In reverse Osmosis, the solution 13 kept inside a semiperoneable membrane and Solvent is ow remains outside the membrane, where external for pressure 15 applied in the solution to prevent the distrision of solvent molecules from pene solverent to inside solution. In waste-water treatment In do addition, more pressure 15 applied & m the solution (inside the membrane) so that water can flow in the neverse direction (solution to solvent), but solute remains moide the membrane. Using this method, the pene water can be pumped out from a wase water sample 'with a semi-permeable membranes

(4) les If poiver bed is committed with Caco, it can resist the acid more drainage by neutralizing the acid (like Heser) H2809+ Caco3 -> Casog 1+142 co3 But due to precipation If the Ca salt 15 water soluble (@a like Calls), the neutralization process is being and to is centimied, but booker water involuble Salts (The Casoq), such neutralization oncess 15 interrupted by to due to formation of a loyer over the own bed (2) Rainwaten is stightly acidir due to presence of co2 in air. CO2+H2O> H2CO3 (Cambonte acid) No. This slight acidity is a beneficial for Ving beings, since it helps to dissolve the salts of soil so that trees can absorb such salts

(6) Yes. The non-toric aro dye will hinden it the sunlight for penetration. Ultimately it leads to death of aquatre biota due to Obsence of photo synthesis.

· NOTUMEN

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