AJAY KUMAR GARG ENGINEERING COLLEGE, GHAZIABAD DEPARTMENT OF CIVIL ENGINEERING

SESSIONAL TEST -2 (Solution)

Course: B.Tech

Session: 2017-18

Subject: Industrial Pollution Control and Env. Audit

Max Marks:50

Semester: VII

Section: CE-1 & CE-2

Sub. Code: NCE-034

Time: 2 hour

SECTION -A

1 > Attempts all the parts.

a) Differentiate between Absorption and adsorption.

ng > s	Absorption	Adsorbtion		
<u>\$</u> -	DI's the phenomena where liquid a completely sucked by the Other Object	The borrich of some object gets attached on the Sonface of other objects		
Q.	This is complete body phenomena	Tha is a surface bhonomere.		

by What do you mean by Concept of zero ducharge effluent.

And > Zero Discharge effluent > The phenomena or concept of removing complète waste from the Industried effluent before ducharge of effluent in some water bodies in Called Zero Discharge effluent.

This says that effluent should be free from ony pollutants. It means No or minimus Quicharge of effluent and Reeve of waster water effectively.

e> Explain Dewatering of Studge in Detail. Any > Del" > The the physical process of removing of water from the studge at the Studge Contain 93% of water and Dru deficult to transport. Perpose > 1 Easy Transportenon @ Eary Disbusal 3 Economical Dubbal d> List the various land and gas emissions from various Industries in India. Arg > 1 Gara like NO2, SO2, SO3, NO, NO3 etc. 1 Hospful lique l'e Chemicale, festilizare etc. (3) lique like Pulp of Perpor. (4) Hamfel Gases like 1+25, Cymde (5) liquides Centenning O,1 & Greate 6 Hazardan Solution e) Explain 'Cradle to Grave' Concept Ans > As the Name Suggest, the Concept deals from -"BIRTH TO DEATH" It means from the extraction of waste to the dubose, what one the stages in between this. The Concepts Stands for the Complete Steps that here been fillaired from the manufacturing of the broduct the the Duposal of those that product. LRaw Mederial Product mansfestise Product Usage [wastage] Desposal of waste

It make, ASP, RBC, Acronon Tank atc.

(4) Tertray Treatment > 9+ answers of Defroundation , reminded

Cyanide etc.

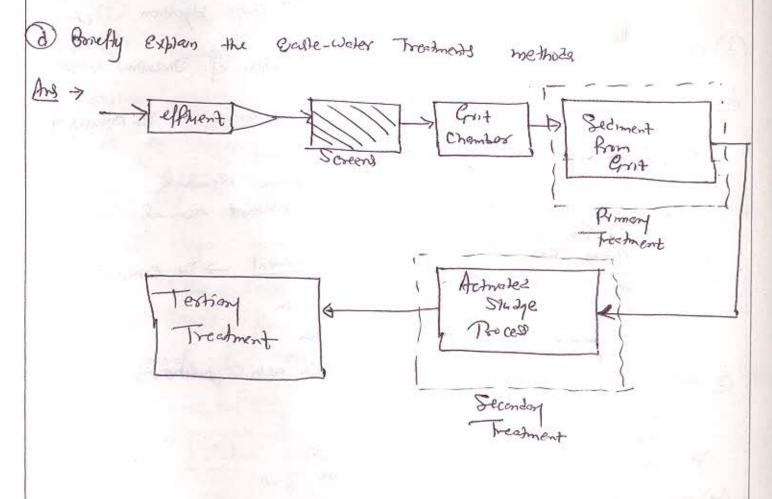
E Has do you determine the quantity of Oil & Great in waste water sample? And Retail.

Are > 0 & 6 can be removed by Skimming process as the Density of Oil & Grease is lower than their flictific water so It floats on the top of waste water & Can be easily removed by Skimming.

Density Separator > It is one of the process to remove 0 & 6.

Duthibbon Process > It helpful to remove 0 & 6 from www. In the process, Sample is give through duthibbon procedure & to the process of the generality of 0 & 6 separationy.

The quantity can be find out by Checking outs it weight & I the quantity is lesser, then Skimming can be close but of the give more, then It had to go through the Vances of the procedure.



Provide, Toxic organics performed ?

AN > @ CYANIDE

Dry removed by

1) Dilution (1 the concentration of water)

(2) membrane (Revose Osmosis is used)

3) Dectrowning

(4) Quilliotion

(5) Oxidehan

6 fluoride

Dr's removed by

1 Chemical addition

(2) Chemical Contact

3 Activates Carbon Boxes

4) Filtrehon Process

Toxic Organics
The removed by

1 UHra ficebon

2 Activeled - Corbin Prices

3 Chemical oddinon

(4) Photolysis

(5) Neutralization

SE	CT	1014	-	C
	01	1011		-

- 3) Attempts all the parts.
- 6) White down Characteristics of liquid effluent from Sugar Mill. Draw a flow Diagram for the Treatment of the Same. Also give some Detail of each Unit Shown in flower Diagram.

The liquid effluent which we get from a sugar mill se very Low on the Parameter of quality,

(2) It mainly contain organic waste or sugar is manifectured from the sugarcane which is organic in notice.

Thu liquid also contains bolymorg of long Chain dece to

methorage gas (CHy) is also distored to some extent

S) Its particle one destined in the waste water & Chemicals by products.

(6) The Chemicals mainly catalysis one duloned in it.

These effuence one very harmful for Environment of not properly toured before duposing off to the Environment.

6) What a Landfill? Which Type of wave should be Dubised off into a landfill as por solid waste management rule (2000) } what are main parkway imphel for environmental Contamination 2 And + LAMOFILE 1) It's one of the mtd of exposal of waste (2) In the 80113 wask to beried into the Land 3) It's of two type a) Area Landfill b) French 1 (a) Area Landfill > 9th done where the exception can not be done to more depth. Ares one druided and offer dubused of weste, 8th correct (b) Trench Landfill > OHL done where the deep excavation con be done and No effect on the ground water. Main Particips involved for Environmental Contamination -> 1 Duposed W/o Treatment (2) Road Side Dumbing of waste 3) motor vehicly (4) Leakage of vanous hamful Gary (5) Dubosing of household wask w/o siggregation 6) Derect Emisson of have 1 Burial of horoxolous Chemicals (8) Direct Dumbing of Industrial Wester into Rick.