GARVIT SHAH
F-24

EEE - Assignment - 4

Q.1 Which of the following sewerage systems carry domestic & industrial waste water ?

A.1 a) sanitary sewers

Q.2 Trikling filter is used in which of the foll. wastewater treatment processes ?

A.2. b) Secondary treatment

Q.3. Which treatment method is used ~~to~~ when the TSS in the sample is high ?

A.3. (a) Methane

Q.4 Which treatment method is used when the TSS in the sample is high ?

A.4. b) High rate solid clarifier

Q.5. Activated sludge is the -

A.5. c) sludge in the secondary tank post aeration, rich in microbial mass.

Q.6. Explain the working of grit chamber.

A.7. • The grit chambers work as a sedimentation tank which is designed to separat the intended heavier inorganic materials & to pass forward the lighter organic materials.

• It is a long narrow or circular tank in the primary sewage treatment plant.

• It reduces the velocity of flow of sewage to eliminate the grit materials such as sand, ash

and clinkers, egg shells, bone chips etc.

Q.6. Explain any two differences between attached system & suspended system.

A.6.

Attached System	Suspended System
1. Mixed Community of microorganisms.	1. Stir & suspend microorganisms in waste water
2. Both aerobic & anaerobic bacteria may exist.	2. Settled out as sludge
3. Biological floc is formed.	

Attached System	Suspended System
1. Grow microorganisms on substrates such as rocks, sand or plastic.	1. Stir & suspended micro-organisms in waste water.
2. Wastewater is spread over the substrate.	2. Settled out as sludge & pumped back into the incoming waste water
Ex: Trickling filters, Rotating biological contactors	Ex: Activated sludge, Extende aeration