

Assignment # 02

WASTEWATER ENGINEERING

Name : Nouman Tahir Shah

ID : 7735

Section : A

Semester : 8th Semester

Lecturer : ENGR. Nadeem Ullah

(A)

Soil Pipes & Anti-Syphon Pipes:

- A soil pipe is for solid water-
- Soil pipe carries water and solids in sewer-
- Soil pipes are vented high at top of the building-
- Soil pipes stacks allow gases produced by waste to vent safely into atmosphere-

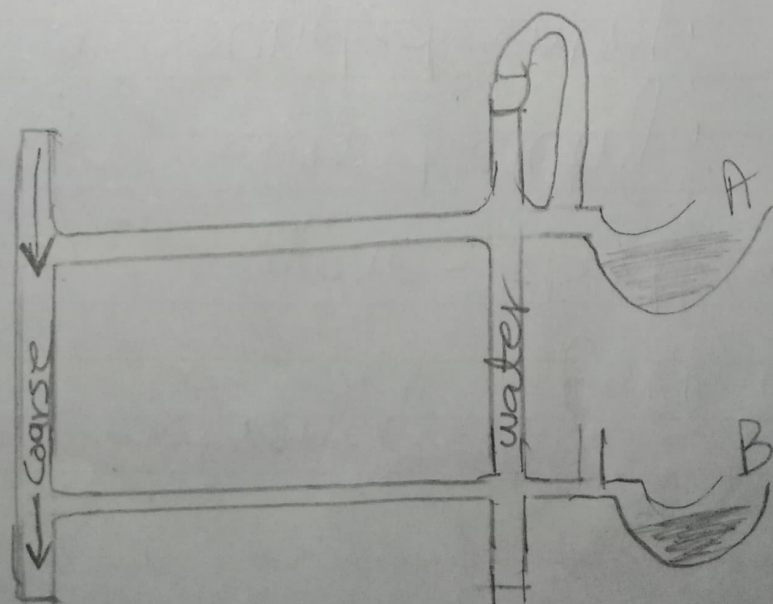
Anti-Syphon Pipes:

- Extra pipe connected to outlet of toilets seats of all the floor the other end of which is exposed to atmosphere which is known as anti-syphonage pipe-

→ The difference of air pressure causes water seal in toilet seat to get sucked out into pipe - Thus scale breaks up and gases escapes out of toilet -

⇒ It maintains water seal so that gases of sewer line do not find entry into the toilet -

→ Water seal of traps in multi-story building or house may sometimes get broken due to siphonic action -



Branch Pipe

(B)

→ Sanitary Fixture:

→ Sanitary fixture is for industrial and fecal sewage that is installed in homes and public-

Industrial building sanitary is attached to interior system for constituting main element of a building.

→ It is installed in bathtub of washhand shower sumps traps and bidet are installed in bathroom, washroom & shower room.

TRAPS:

→ Traps catch water after each discharge from a fixture as not allow unpleasant & abnoxious gases in sanitary drainage system to escape through fixture. All fixture are to be provided with its own trap except for three laundry and kitchen sinks connected to single trap.

Types:

→ Traps are classified upon shapes as:

- ① Trap
- ② Trap
- ③ Trap

age,
(5)

→ The depth of trap is dependent upon usage of a pipe the trap seal varies from 20 to 25mm deep.

