

IQRA NATIONAL UNIVERSITY

Sessional Assignment No= 2

Subject = Wastewater Engineering

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(1)

Briefly describe the following terms.

1) Soil Pipes and anti-syphon Pipes.

Soil Pipes:

A pipe carrying wastes from toilets and sometimes from waste pipes. A pipe that conveys sewage or waste water from a toilet, etc. to a soil drain or sewer. A soil pipe is just that, a pipe that is designed to carry soiled water away from your home, whether that be from your toilet, urinal or bidet.

Anti-syphon Pipes:

An extra pipe connected to the outlets of toilet seats of all the floors, the other end of which is exposed to atmosphere is called anti-syphonage Pipe.

(2)

2) Sanitary fixtures and traps;

Sanitary fixtures:

A receptacle for industrial and fecal sewage that is installed in homes and public and industrial buildings. Sanitary fixtures are installed in different areas. Bath tubs, washstands, shower sumps, traps and bidets are installed in bathrooms, washrooms, and shower rooms.

Traps:

In plumbing, a trap is a device shaped with a bending pipe path to retain fluid to prevent sewer gases from entering buildings while allowing waste materials to pass through. In oil refineries, traps are used to prevent hydrocarbons and other dangerous gases and chemical fumes from escaping through drains.

(3)

3) Cross connection and back siphonage control.

Cross Connections:

A cross connection is a link or structural arrangement where potable water in a distribution system can be exposed to unwanted contaminants. It is the point at which it is possible for a non-potable substance to come in contact with the drinking water system. Cross connections are generally unintentional and can happen anywhere pipes supply water.

Back siphonage control:

The easiest way to prevent backflow of water is to install an air gap. The

Atmospheric Vacuum Breaker: Atmospheric vacuum breakers are the simplest and least expensive back-siphonage preventers.

