

EHS409

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1. Sewerage systems can be classified into the following types except.

--->> Joint Sewerage

Simplified sewerage

Conventional sewerage

Settled sewerage

2. Which analytical method is most recommended when the waste water is from commercial, industrial and municipal ventures, and is suspected to contain compounds toxic to biological life.

--->> Chemical oxygen demand (COD)

Biochemical Oxygen Demand (BOD)

Total Suspended Solids (TSS)

Total Dissolved Solids (TDS)

3. Delete which is not a grit removal device.

Hydrocyclone

Detritus tank

Aerated grit chamber

--->> Pressure tank

4. At various stages in the treatment of water and waste water, sludge will result. This sludge itself needs treatment prior to final disposal. Which grouping does not comprise of processes in sludge treatment.

Thickening, digestion, drying on sand bed.

--->> Osmosis, ionization, liquidation.

Conditioning with chemical, elutriation, vacuum filtration.

Heat drying, wet oxidation, centrifuging.

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Dry weather flow

--->> Combine sewer overflow (CSO)

back flow

Constriction

6. Settled sewerage system is designed to assist:

Ponds

Quarry

--->> Septic tanks

Catchments pits

7. Which of the following sources of liquid wastes from a motor garage has higher potential for hazardous waste and other damaging waste entering the floor drain system.

Precipitation draining from vehicles

--->> Spills from materials stored or used in the garage such as thinners, solvents, paints, pesticides, cleaners.

Liquids from vehicle repair such as gasoline, used oil, antifreeze.

Water used in vehicle washing.

8. In planning the size and nature of sewerage systems, the following should be considered, except.

Hydraulic loading rate

--->> Payload rate

Organic loading rate

Solid loading rate

9. Sterilization of waste water is achieved through the use of ultra-violet (UV) radiation. The following is not true of UV radiation.

It attacks the vital DNA of the pathogen directly

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--->> It can induce evaporaton in the water sample

Sterilized micro organisms are not removed from the water

10. Which of the following contents will require channeling to a separate specialized treatment plant rather than a conventional sewage treatment plant.

Separate sewerage carrying waste water only

Separate sewerage carrying storm water only

Combined sewerage carying both waste water and storm water.

--->> Special separate sewerage from an industrial layout carrying hazardous waste water.

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