



SELF-ASSESSMENT TEST

LESSON 3

Answers

1. True

Industrial effluents may contain inorganic compounds in higher proportion than urban wastewater due to the production activity (*e.g.* fish canning industry).

2. False

Effluents from pulp and paper mills contain mainly organic compounds and suspended and settleable materials.

3. True

The characteristics of wastewater from industrial sources vary with the type and the size of the facility and the on-site treatment methods, if any. Because of this variation, it is difficult to standardize a treatment for all IWW.

4. False

Chemical operations, in conjunction with various physical operations, have been developed for the treatment of IWW.

5. True

Metal hydroxides are not soluble in water, whereas metal composed salts and their ions can be dissolved in water.

6. False

Anaerobic biological processes are very attractive for wastewaters with a high organic load and a constant quality. This allows a high production of an energy-rich gas containing methane.

7. False

The sludge produced in anaerobic biological treatments is more stable than the one produced in aerobic treatments. The sludge from aerobic process has still a potential for putrefaction and production of odors.

8. False





The removal of chromium is aided by reduction from chromium (VI) to chromium (III) followed by precipitation.

9. False

Alkaline waters can be neutralized adding concentrate acids. Caustic soda is used to neutralize acid waters.

10. False

Efficiency of a high-rate sludge anaerobic digester can be increased heating it. Because of the exothermic profile of anaerobic reactions heating the digester will help to increase its efficiency.