

Questions

Week VI

Sludge and its disposal

- 1) What is sludge? Why should sludge be treated before disposal?
- 2) What are the two main steps of sludge disposal?

Treatment of Hard Water

- 1) Except for problem with soap and detergent, what other problems are encountered with hard water? How can the hardness of water be measured?
- 2) With reactions discuss the lime-soda ash process of making hard water soft.
- 3) How do ion-exchangers remove hardness of water?

Energy and Environment

- 1) What is the principle of magnetohydrodynamic power generator? What are its advantages?
- 2) Low grade coal can be converted into energy efficient gaseous fuel, how?
- 3) What is natural gas? Why is natural gas a better fuel than petroleum?
- 4) What are breeder reactors and what is their advantage?
- 5) List out methods of safe disposal of nuclear waste generated by nuclear power plants.
- 6) Discuss a nuclear accident in brief.