

UNIT-3

ENERGY SOURCES

Short answer questions:

1. Define Battery.
2. What is Reserve Battery.
3. What are Fuel cells.
4. Write any two difference between Primary Battery and Secondary Battery.
5. What are the Commercial Requirements of a Battery.
6. Write any two applications of LPG.
7. What any two characteristics of a good fuel.
8. Define cracking.
9. What is calorific value of a fuel.
10. Write the Dulong's Formula.

Long Answer Questions:

1. Write the Construction, working and applications of Li-ion cells.
2. Explain the Construction, working and applications of Zn-air Batteries.
3. Explain the Construction, working and applications of Direct Methanol Fuel cell.
4. Differentiate Fuel cells and Batteries.
5. What is cracking? Explain the Moving Bed Catalytic Cracking .
6. Explain the process of Refining of Crude oil.
7. What is Gaseous fuel. Write the Composition and Applications of CNG.
8. Explain how Synthetic fuel is prepared from Fischer Tropsch process.
9. Write the Applications of Hythane and Green hydrogen.
10. Calculate Net and Gross calorific value of Coal having the following composition
Carbon-85%, Nitrogen-2%, Hydrogen-8%, Sulphur-1%, Ash-4% Latent steam of
heat is 587 cal/g