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**ME 8792 Power Plant Engineering**

**Important 13mark questions**

**Unit I**

1. Explain how the Rankine cycle efficiency is improved when increasing the pressure of steam and reducing the condenser pressure.
2. What is Fluidised Bed Combustion (FBC)? Describe the function of bubbling Fluidised bed boiler.

**Unit II**

1. What are the functions of a fuel injection system of a diesel plant?
2. What is Brayton cycle? Using a schematic of closed cycle gas turbine engine, discuss the thermodynamic processes of Brayton cycle and then arrive the efficiency expression.

**Unit III**

1. What does Liquid Metal Fast Breeder (LMFBR) mean? Discuss the working principle of LMFBR.
2. Explain the characteristics features of a Pressurised water reactor with a sketch.

**Unit IV**

1. Explain with a neat diagram the operation of a hydro electric power plant. What are its advantages?
2. Discuss about the construction and working of a solar photovoltaic and solar thermal plants.

**Unit V**

1. Discuss the issues of various gases that are released into the atmosphere from diesel engine power plant.
2. Draw a typical load curve. Mention its salient features.