

Roll No

ME-6005 (3) (CBGS)

B.E. VI Semester

Examination, November 2019

Choice Based Grading System (CBGS)

Power Plant Engineering

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. Write an essay on Renewable energy sources their applications, sources, merits and demerits.
2. Explain followings:
 - a) Fuel cells
 - b) MHD convertors
 - c) Thermo electric modules
 - d) Hybrid energy system
3. a) Write down recent trends in Turbines and Boiler sizes of thermal power plants.
b) Discuss the elements of feed water treatment plants.
4. How testing of Thermal power plants is done? What is plant heat balance?

5. Discuss followings:
 - a) Thermal neutron fission
 - b) Moderators and coolants of Nuclear power plants
 - c) Thermal and fast breeder reactors
 - d) Safety features of Nuclear power plants.
6. Explain flow and power duration curves, mass curves of Hydral power stations.
7. a) Discuss estimation and prediction of load concepts in power plants.
b) Explain the concept of micro and pico hydro machines.
8. Write short notes on followings:
 - a) Plant factors and their influence on plant design
 - b) Selection criteria of Hydro turbines for power stations
 - c) Important nuclear fuels
 - d) MHD converters
