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ME-6005 (3) (CBGS)

B.E. VI Semester

Examination, May 2019

Choice Based Grading System (CBGS) Power Plant Engineering

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

All questions carry equal marks.

- What is renewable energy? Explain with example.
 - How can wind energy be converted to electrical energy.
- What is mean temperature of heat addition and what is its effect on cycle efficiency?
 - Write a note on feed water treatment.
- How do you classify types of boilers of power plant?
 - Explain the working and constructional detail of surface condensers.
- Define radioactive decay and binding energy.
 - What is the function of moderator in a nuclear plant? Which material is used as moderator.
- Compare nuclear plant with thermal and hydroelectric plant.
- Define run off. Discuss the factors which affect run off.
 - State the purpose of surge tank. Why it is important in hydro plant?

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- a) What are elements which contribute to the cost of electricity?
 - Discuss the salient features of interconnected systems.
- 8. a) What is load curve? Explain it's importance.
 - A power station has maximum demand of 80 mw, a load factor of 0.7, plant capacity factor of 0.5 and plant use factor of 0.90. Find
 - The daily energy produced
 - ii) Reserve capacity of plant
 - iii) The maximum energy that could be produced daily if the plant operating schedule is fully loaded when in operation.

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