

KADI SERVA VISWAVIDYALAYA
LDRP Institute of Technology & Research, Gandhinagar.
BE (Sem-IV) (Electrical)
Mid Semester Examination Feb – 2015
Electrical Power-I

Date: 04/03/15

Time: 12.00pm to 01.30pm

Marks: 30

Instructions:

1. Figure to right indicate full marks.
 2. Attempt all questions.
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- Q-1.** (a) Explain the working of nuclear power station with all details of equipments connected to it. **5**
- (b) Give details of major generating station in Gujarat state & also give their capacity. **5**
- Q-2.** Draw schematic arrangement of TPS & explain different equipments used in thermal power Station. Gives advantage and disadvantage of TPS. **10**

OR

- Q-2.** (a) Explain the working of hydro power station with function of different components. **5**
- (b) Discuss the factor to be considered for selection of site of TPS. **5**
- Q-3** (a) which are the different turbines used in hydro power plant and explain any one. **5**
- (b) Explain gas power plant with schematic arrangement. Gives advantage of that. **5**

OR

- Q-3** (a) A power station consumes 0.7kg of coal to generate one unit of electrical energy. If calorific value of fuel is 7425kcal per kg. find the thermal efficiency of station. Assume turbine efficiency is 95% & generator efficiency is 96%. **5**
- (b) Give the relative comparison of hydro, thermal & nuclear power plants. **5**

***** *All The Best* *****