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Total No. of Pages : 01

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**M.Tech. Electrical (Power System)EL-I (Sem.-1)****RENEWABLE ENERGY SYSTEM****Subject Code : EEPS-103X-18****Paper ID : [75733]****Time : 3 Hrs.****Max. Marks : 60****INSTRUCTIONS TO CANDIDATES :****1.Attempt any FIVE questions out of EIGHT questions.****2.Each question carries TWELVE marks.**

1. Discuss about the barriers in implementing renewable energy systems in India.
2. Define different types of mechanical control used in wind energy conversion system (WECS). How are pitch control and yaw control associated with the types of generator used in WECS?
3. Compare between conventional and non-conventional energy sources.
4. How is the power electronic converter interfaced with main grid? Explain with one example.
5. Explain the analysis of the energy content and its extraction for a hot dry rock type geothermal resource.
6. Discuss about the power quality problems due to distributed generators.
7. Give and explain one case study on economic factors related to distributed generation.
8. Explain the employment of protection scheme on distributed generators under the supervision of system operator.