V.S.B. ENGINEERING COLLEGE, KARUR

Department of Electrical and Electronics Engineering

Academic Year: 2017-18 (EVEN Semester)

ASSIGNMENT QUESTIONS

CLASS / SEMESTER: IV YEAR / VIII SEMESTER

Name of the Course (Subject) **:** EE6801 Electric Energy Generation, Utilization and Conservation

Class / Semester **:** IV Year / VIII Semester B.E. Electrical and Electronics Engineering

Name of the Faculty **:** T.Satheeshprabhu

ASSIGNMENT QUESTIONS

1. Explain the various types and recent trends in electric traction systems.
2. What is the power factor? What are the disadvantages of low power factor and explain the different methods of power factor improvement. Discuss the energy saving opportunities.
3. Mention the Advanced techniques used in heating and welding process.
4. Mention the Various MPPT techniques for solar power Extraction.
5. Explain about wind Energy application and Technologies.

Name of the Course (Subject) : EE6009 – Power Electronics for Renewable Energy Systems

Class / Semester : IV Year / VIII Semester B.E. Electrical and Electronics Engineering

Name of the Faculty : Dr.K.Umamaheswari

ASSIGNMENT QUESTIONS

1. Explain in detail the operation and working of geothermal energy sources
2. Analysis of wound rotor Induction motor.
3. Write a note on Forced commutated converter.
4. Design and analysis of hybrid wind-Photovoltaic system.
5. Hybrid Energy System-A review

Name of the Course (Subject) : GE6075-Professional Ethics in Engineering

Class / Semester : IV Year / VIII Semester B.E. Electrical and Electronics Engineering

Name of the Faculty : K.G.Aswin Kumar

ASSIGNMENT QUESTIONS

1. Engineers who work for tobacco companies betray their moral integrity or can they provide an adequate moral accounting for their work? Justify your answer
2. “On being one’s own rabbit” is an essay by J.B. Haldin who conducted many risky medical experiments on his own body. Discuss as a responsible experimenter to what extent such a practice is desirable or not.

3. In the challenger space shuttle disaster, examine if and how principle actors behaved as responsible experimenters.
4. Discuss the notion of ‘safe exit’ using evacuation plans for communities near power plants or chemical processing plants.
5. Define confidentiality and answer the following question: “If an engineer has been unjustly discharged, must he keep confidential in later employment the trade secrets of his original employers? In general is it wise to follow the doctrine of an “eye for an eye and a tooth for a tooth?”