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Roll No.			Total No. of Pages : 01

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M.Tech.(EE)EI-I(2018 Batch) (Sem.-1)
RENEWABLE ENERGY SYSTEMS

Subject Code: MTEE-103C-18
Paper ID: [75219]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWELVE marks.
- 3. Make use of diagrams to explain.
- Q1. i) What is the impact of distributed generation on the power system? How does it affect the power quality?
 - ii) What do you understand from sources of energy? What is the need of these energy sources? Where are they used? (7,5)
- Q2. Illustrate the construction and working of internal combustion engine. What are the uses of internal combustion engine? (12)
- Q3. What is energy? What are various types of energy? Compare the performance and uses of solar energy, geothermal energy, fuel and biomass energy. (12)
- Q4. What is the function of grid for distribution of power? Explain the development of power electronic interface for the grid system. (12)
- Q5. i) What are transmission systems? How do transmission systems operate? What are their limitations?
 - ii) Write about photovoltaic solar cell. (9,3)
- Q6. What is the difference between distributed and central station generations? Which is prefered and why? (12)
- Q7. Explain in detail an efficient method for collection and storage of solar energy. How solar energy can be used in agriculture and in industrial processes? (12)
- Q8. What is meant by ocean thermal electric conversion? What are the operation methods of utilization of tidal power generation? Where is this oceanic energy sources used?

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