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B.Tech.(Electronics & Electrical Engg.) (2012 to 2017 E-III)
B.Tech.(Electrical & Electronics Engg.) (2013 & Onwards E-III)
(Sem.-7)

NON-CONVENTIONAL ENERGY SOURCES

Subject Code : BTEEE-805D M.Code : 71972

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Answer briefly:

- Define See beck effect.
- How can wind energy be converted into electrical energy?
- State the advantages of the MHD power generation.
- Give three types of solar energy collectors.
- 5. What are the constituents of biogas?
- Classify the geothermal sources.
- Differentiate between tide and wave.
- 8. What is solar cell?
- Name at least three green house gases responsible for global warming.
- 10. What are the merits and demerits of tidal power generation?

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SECTION-B

- With neat diagram explain the operation of wind power plant and mention the important parameters to be monitored in each block.
- Explain the open cycle and closed cycle systems of magneto hydro dynamic power generation.
- 13. Explain the principle of conversion of solar energy into heat. What are the main components of a flat plate solar collector, explain the function of each?
- 14. What is geothermal energy? How can geothermal energy are utilized for electric power Generation?
- Explain the various methods of tidal power generation.

SECTION-C

- 16. What is the principle of solar photovoltaic power generation? What are the main elements of a PV system?
- 17. a) Explain briefly about the vertical wind mills with neat sketch?
 - b) Write short note on bio energy from agriculture waste.
- Write short note on following :
 - a) Thermoelectric Generators
 - b) Gibb's Free Energy

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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