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Name of Examination : **Winter 2020** - (Preview)

Course Code & Course Name : **EE305UX - Open Elective I-Renewable Energy Technologies**

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Maximum Marks : **60**

Duration : **3 Hrs**

[Edit](#) [Print](#) [View Answer Key](#) [Close](#) **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. All questions are compulsory.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

1) Solve any two sub-questions

- a) Explain stand alone solar PV system [6]
- b) Explain wind velocity duration characteristics [6]
- c) Explain geopressure geothermal resources [6]

2) Solve any two sub-questions

- a) Differentiate between HAWT and VAWT [6]
- b) Explain energy route for biomass conversion process [6]
- c) Explain power & efficiency of solar cell [6]

3) Solve any two sub-questions

- a) Explain the merits and demerits of solar PV system [6]
- b) What are types of geothermal power plants [6]
- c) Explain the power in wind [6]

4) Solve all sub-questions

- a) Explain origin of geothermal energy resources [6]
- b) Explain sources of available wood residues [6]

5) Solve all sub-questions

- a) Explain gaseous fuels from biomass with processing [6]
- b) Explain advantages and disadvantages of solar energy [6]

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