



GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

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Name of Examination : **Summer 2021** - (Preview)

Course Code & Course Name : **EE355UX - Open Elective-II ENERGY AUDIT AND CONSERVATION**

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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 three sub-questions.

- a) What do you mean by world fossil fuel & its reservoirs? Explain briefly. [6]
- b) Explain how the Energy and environment has a close relationship [6]
- c) What are the major pollutants in burning fossil fuels and what are their effects? [6]
- d) What do you mean by Energy Costs? What components it contains? [6]

2) Solve any three sub-questions.

- a) Write a short note on automatic power factor correction. [6]
- b) Give the Definition and objectives of energy management systems [6]
- c) What are the energy conservation opportunities used in boilers. [6]
- d) What are the energy conservation opportunities used in air conditioners and ventilating systems. [6]

3) Solve any three sub-questions.

- a) List down some energy conservation opportunities in Pumping systems? [6]
- b) What are the various instruments required for energy audit. [6]
- c) Give the Energy audit report format. [6]
- d) Explain the present worth method for economic analysis. [6]

- 4) Explain the break even analysis. [6]

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