



GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

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

Course Code & Course Name : **EE354UC - Professional Elective - II ENERGY CONSERVATION AND AUDITING**

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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) Attempt any two of the following.
 - a) What is energy conservation? [2]
 - b) What are goals of energy management? [2]
 - c) What are those criteria on which energy can be classified into several types [2]
- 2) Attempt any three of the following.
 - a) Write on energy conservation. [4]
 - b) Give different types of Energy Audit. [4]
 - c) Give brief introduction to areas of application of Energy Conservation. [4]
 - d) Renewable and Non-Renewable Energy: differentiate them. [4]
- 3) Attempt any three of the following.
 - a) What are the goal and objectives of energy management? [4]
 - b) What is aim of energy security? Give the strategies that can be used to meet future challenges to their energy security. [4]
 - c) Write in detail about the information to be collected during the detailed audit. [4]
 - d) Explain the sequential steps of audit. [4]
- 4) Attempt any four of the following.
 - a) What are the energy conservation techniques, give in brief. [8]
 - b) Write in brief about identification of Energy Conservation Opportunities [8]
 - c) Explain Indian Energy Scenario in detail. [8]
 - d) Write notes on key instruments for energy audit [8]
 - e) Explain Demand side management (DSM) with its benefits [8]

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