# Sanjay Ghodawat University, Kolhapur

2020-21

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

EXM/P/09/00

| Year and Program: TY.B Tech | School of Technology | Department: Electrical Engineering |
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| Course Code: ELE309.2 | Course Title: General Aspects of Energy Management & Energy Audit | Semester : V |
| Day : Wednesday<br>Date : 23.12.2020 | End Semester Examination | Time : 2 Hrs.<br>Max Marks : 50 |

**Instructions**: 1) All Questions are compulsory.
2) Read the questions very carefully and choose the assumption accordingly

| | | Marks | Bloom's Level | CO |
|---|---|---|---|---|
| **Q.1** | **Answer the following (any Two)**– | | | |
| a) | Explain energy intensity and purchasing power parity in detail. | 8 | L2 | CO2 |
| b) | Write short note on Indian energy scenario. | 8 | L1 | CO1 |
| c) | Explain electricity act 2003 in short. | 8 | L1 | CO2 |
| **Q.2** | **Answer the following (any two) –** | | | |
| a) | Define the following:<br>i) Specific heat. ii) Power factor.<br>iii) Relative humidity. iv) Dew point. | 8 | L2 | CO1 |
| b) | Describe various types of energy audit and explain ten step methodology to conduct energy audit. | 8 | L3 | CO3 |
| c) | Explain components of material and energy balance | 8 | L1 | CO4 |
| **Q.3** | **Answer the following (any two) –** | | | |
| a) | Explain management tools for effective implementation of energy use. | 9 | L2 | CO2 |
| b) | List out duties and responsibilities of an energy manager. | 9 | L4 | CO2 |
| c) | Describe project development cycle (PDC) in detail. | 9 | L3 | CO4 |

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