

**TUTOR MARKED ASSIGNMENT
MED-003: Energy and Environment**

**Course Code: MED-003
Assignment Code: MED-003/TMA/2025
Maximum Marks: 100**

- Note:**
- * This assignment is based on the entire course.
 - * All questions are compulsory. Marks for the questions are shown within brackets on the right-hand side.
 - * Answer in your own words; do not copy from the course material.
 - * Write the answers in about 250 words for 5 marks questions and not exceeding 500 words for 10 marks questions.

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| 1. | Discuss the role of individuals in effecting energy savings and developing energy infrastructure. | (10) |
| 2. | Explain the basic principle of electricity generation underlying the nuclear power plant. | (10) |
| 3. | Highlight a few measures that can be used to save energy in the commercial and industrial sectors in India. | (10) |
| 4. | Explain the working of a bio gas plant with neat diagram. | (10) |
| 5. | Examine the perspective of developing countries regarding energy vis-à-vis environment. | (10) |
| 6. | Elaborate on Power to the people: A Ten-Point agenda for change. | (10) |
| 7. | What is home energy audit? Discuss the different aspects of conservation of energy in homes. | (10) |
| 8. | Describe the process of extracting crude oil in an oil well and refining it in petroleum refineries. | (10) |
| 9. | Write short notes on the following: | (4x5=20) |
| | (i) Limitations of Clean Development Mechanism | |
| | (ii) Benefits of Demand Side Management | |
| | (iii) Advantages and limitations of small hydropower plant | |
| | (iv) Solar Photovoltaic Technology | |