

**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   |          |