| 1. |  | Explain the necessity of energy conservation. |
| --- | --- | --- |
|  |  | **(or)** |
| 2. |  | How treated wastewater is useful for non-potable purpose? Explain with suitable example? |
| 3. | a) | Write about the success case studies of fully solar energy-based buildings in India. |
|  | b) | Discuss few construction and operation of various solar appliances. |
|  |  | **(or)** |
| 4. | a) | Discuss about use of renewable energy resources. |
|  | b) | Explain the case study of ITC Maurya Hotel in New Delhi? |
| 5 | a) | Write about Modular wastewater treatment systems for built environment. |
|  | b) | What are the objectives of green building rating systems? |
|  |  | **(or)** |
| 6 | a) | Discuss about Green Building Rating Systems |
|  | b) | Write about Modular wastewater treatment systems for built environment. |

| 7 |  | Explain about technologies used in “Waste to Energy”. |
| --- | --- | --- |
|  |  | **(or)** |
|  |  | Write about Wind and Solar Energy Harvesting? |
| 8 | a) | Explain the case study of Suzlon one Earth Corporate Headquarters? |
|  | b) | Discuss about the potential of solar energy in India. |
|  |  | **(or)** |
| 9 | a) | Discuss about energy usage in buildings and their Consequences. |
|  | b) | Explain the Passive Cooling Techniques in Green Buildings? |
| 10 | a) | Explain about LEED Criteria in detail? |
|  | b) | Explain about Modular Wastewater treatment systems for gated Communities. |
|  |  | **(or)** |
| 11 | a) | How to implement Green Rating Systems for Integrated Habitat Assessment? Explain |
|  | b) | Discuss about Building Automation and Building Management Systems? |

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