

**DIPLOMA IN ELECTRICAL ENGINEERING  
(DELVI)**

**Term-End Examination**

**December, 2016**

00613

**BIEE-038 : ENERGY AUDIT**

*Time : 2 hours*

*Maximum Marks : 70*

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*Note : Attempt any seven questions. All questions carry equal marks. Use of scientific calculator is permitted.*

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1. What is energy analysis ? What are its various methods ? 10
  
2. Discuss in detail the developments in energy sector of India. 10
  
3. What are various renewable resources available in India ? How are these contributing in making India a 'self-sufficient energy generation' nation ? 10
  
4. Explain the auditing procedures for any energy production system. 10

5. Design a flow chart explaining the energy management system of any renewable resource based energy system. 10
  6. What are energy conservation opportunities for domestic consumers ? How will these contribute in the economy of the country ? 10
  7. How does the growth demand affect the energy policy and energy market ? 10
  8. What is energy crisis and how does it affect the society ? 10
  9. Write short notes on any *two* of the following :  $2 \times 5 = 10$ 
    - (a) Measurement of Energy Conservation
    - (b) Energy Analysis of Food Industry
    - (c) Pollution Free Energy Resources
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