

**DIPLOMA IN ELECTRICAL ENGINEERING  
(DELVI)**

**Term-End Examination**

**June, 2015**

00916

**BIEE-038 : ENERGY AUDIT**

*Time : 2 hours*

*Maximum Marks : 70*

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*Note : Attempt any seven questions. All questions carry equal marks.*

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1. Define energy audit. Why is it needed and what are its objectives ? 10
  
2. What do you understand by 'force field analysis' ? How is it useful in achieving energy conservation goal ? What is the purpose of energy policy in any organisation ? 10
  
3. Discuss the flaws in energy infrastructure to meet the energy requirement of the country. How do the energy services and their good availability support the social developments ? 10
  
4. Define the primary and secondary energy sources and their percentage available in India. What is the energy transportation structure ? Explain. 10

5. Explain in detail, 'Long Term Energy Scenario'. Also explain India's oil demand and consumption. 10
  6. What are the renewable resources in India ? Also write down the cumulative achievement upto 2012. 10
  7. Discuss the effect of carbon emissions on environment. Also discuss the energy and carbon intensity, per capita energy consumption and carbon emission. 10
  8. Describe the effect of Growth Demand and Dynamic effects of Energy Policy. Explain the basic principle of pricing in a competitive market. 10
  9. What are the energy conservation opportunities in electric motors ? Explain the pump-up test and leakage test of air compressor. 10
  10. Discuss the 'post-audit' for an industry and compare it with 'pre-audit' activities. 10
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