No. of Printed Pages: 2

**BIEE-038** 

## DIPLOMA IN ELECTRICAL ENGINEERING (DELVI)

## Term-End Examination June, 2016

00586

**BIEE-038: ENERGY AUDIT** 

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Tin	ne: 2 hours Maximum Marks	Maximum Marks : 70		
No	<b>te:</b> Attempt any <b>seven</b> questions. All questions co equal marks. Use of scientific calculator permitted.	_		
1.	What do you understand by an energy audit? Discuss its role in detail.	10		
2.	What are the various social and economic cost-benefit aspects associated with energy analysis?	10		
3.	What are the different energy sources available in India? Discuss the change in renewable energy usage in India in the last ten years.	10		
4.	Explain the principles of multi-objective energy management with emphasis on conservation.	10		

5.	What is the objective of per capita energy consumption and carbon emission?	10
6.	What do you understand by energy conservation? Propose some energy conservation techniques in domestic use.	10
7.	Differentiate between post-audit and pre-audit processes for an industry.	10
8.	Discuss the auditing procedures in detail.	10
9.	<ul> <li>Write short notes on any <i>two</i> of the following: 2×5=</li> <li>(a) Long-term Energy Scenario</li> <li>(b) Alternative Energy Resources</li> <li>(c) Energy Analysis of Transportation Systems</li> </ul>	=16