

**DIPLOMA – VIEP – ELECTRICAL  
ENGINEERING (DELVI)**

00024

**Term-End Examination**

**June, 2014**

**BIEE-036 : ELECTRICAL INSTALLATION  
AND SYSTEM**

*Time : 2 hours*

*Maximum Marks : 70*

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**Note :** Answer Question no. 1 which is **compulsory**.  
Answer any **four** more questions from questions  
no. 2 to 8.

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1. Write short answers for following :  $2 \times 7 = 14$
- (a) Give the two broad classifications of wiring.
  - (b) List the various types of switches used in domestic wiring.
  - (c) What are the advantages of earthing ?
  - (d) What is VIR cable ?
  - (e) What are the various types of conduits used ?
  - (f) What is the value of fusing factor ?
  - (g) What are the types of water heaters ?
2. (a) Explain how will you call quotations for purchase with specimen. 7
- (b) Make a specimen tender to be published in newspaper. 7

3. Give particulars about the different kinds of wires and cables used for domestic wiring. 14
  4. Present a simple domestic layout and explain how wiring is carried out in it. 14
  5. What are the methods to find the Earth resistance ? Explain the use of the Earth tester. 14
  6. (a) Two lamps and one fan are to be controlled by independent switches placed on single switch board. Draw a schematic circuit diagram for the same. 7
  - (b) Draw the schematic diagram for one lamp to be switched ON and OFF from any of the three places. 7
  7. Draw the single line diagram of pole mounted substation indicating with various protective devices installed on HT and LT side. 14
  8. Write short notes on any *two* of the following :  $2 \times 7 = 14$ 
    - (a) Elements of Estimating and Costing
    - (b) Prepare a specimen comparative statement after receiving quotations
    - (c) Methods of installation of service connection lines to building
    - (d) Indian Electricity Rules 77 and 79 on service lines
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