

**DIPLOMA - VIEP - ELECTRICAL  
ENGINEERING (DELVI)****Term-End Examination****December, 2013****BIEE-036 : ELECTRICAL INSTALLATION  
AND SYSTEM***Time : 2 hours**Maximum Marks : 70*

- Note :** (i) Question no.1 is *compulsory*.  
(ii) From question No. 2 to 8 answer any 4 questions.

1. (a) What is TRS wiring ? 7x2=14  
(b) What are the various types conduits used ?  
(c) What is fusing factor ?  
(d) What is rotary slush switches ?  
(e) What is ceiling roses ?  
(f) Write any two precautions against electric shock.  
(g) What are the types of water heaters ?
2. (a) Explain how will you call quotations for purchase of electrical equipment. 2x7=14  
(b) Prepare a specimen tender notice to be published in news paper.
3. Compare the batten wiring , casing-caping and conduit wirings and which type of wiring is suggested for domestic wiring , explain. 14
4. Draw and explain lamp control. 2x7=14  
(a) Circuit for more than two points.  
(b) Draw the wiring diagram of flourescent tube lighting.

5. A 7.5 kW, 400 V, 3- phase , 50Hz induction motor is to be installed in a work shop, the plan is shown in Fig.1 Draw the layout of wiring and estimate the quantity of material required. 14

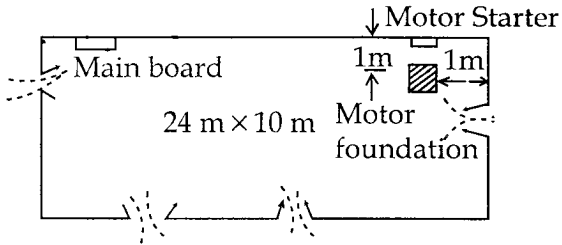


Fig.1.

6. What are the methods to find earth resistance and explain the use of earth tester ? 14
7. Draw a layout of pole mounted substations. 14
8. Write short notes on **any of two** : 2x7=14
- (a) Purpose of estimating and costing
  - (b) ELCB
  - (c) Indian Electricity Rules 77 and 79 on service lines
  - (d) Different types fans and sizes.