

Roll No. ....

Total Pages : 02

**BT-7/M-20**

**37201**

**ELECTRICAL ESTIMATION  
AND COSTING-II  
EE-411N**

Time : Three Hours]

[Maximum Marks : 75

**Note** Attempt Five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

**Unit I**

1. (a) Write a short note on Indian electricity rule. **3**  
(b) List the general requirements of electrical installations and their function in domestic wiring. **7**
2. (a) Describe the purpose of testing of installation. Write the name of testing equipments and their applications for testing of LT line. **9**  
(b) Write short note on load assessment. **6**

**Unit II**

3. (a) What are the aspects of neutral and earth wire ? **7**

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**1**

- (b) Sketch an electrical single line diagram for multistory building. List the name of components and give their brief discussion. **8**
4. (a) Describe layout circuit diagram of small scale industry. Estimate the cost of major components.  
 (b) Brief layout circuit diagram of commercial building. **6**

### Unit III

5. Design and sketch layout of a long distance overhead transmission line of 132 kV; discuss all components from generating station to domestic building and which types of problems generally occurs at time of installation.
6. (a) Describe the constructional procedure of underground cables. **7**  
 (b) With brief discussion of components, make underground cable circuit line diagram of a city. **8**

### Unit IV

7. Sketch and design of outdoor substation at generating station. Describe the activities involved in transmission and distribution system. **15**
8. Write short notes on the following :  
 (a) Pole mounted substation **8**  
 (b) Indoor substation. **7**

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