

No. of Printed Pages : 03

Roll No. ....

**C-11**

**B. Tech. EXAMINATION, Dec. 2017**

(Third Semester)

(B. Scheme) (Main/Re-appear)

(EE, EEE)

EE-209-B

ESTIMATION COSTING, ELECTRIC CODES  
AND STANDARDS

*Time : 3 Hours]*

*[Maximum Marks : 75*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Part.

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**P.T.O.**

### **Part A**

1. (a) Describe the purpose of estimation and costing in electrical engineering. **10**  
(b) Differentiate between electrical point method and fixed point method. **5**
2. (a) Write steps of market survey for electrical installation in buildings. **10**  
(b) What do mean by specimen tender in estimation and costing ? **5**

### **Part B**

3. (a) What is the scope of national electrical code in electrical installation ? **8**  
(b) What are different type of electrical wiring system ? **7**
4. (a) Describe the function of Distribution board to distribute the power to consumers. **10**  
(b) Describe the function of distribution board to distribute the power to consumers. **5**

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### **Part C**

5. (a) Discuss CTS and PVC wiring systems in detail. **8**  
(b) Define Luminaries and how it is required in wiring systems. **7**
6. (a) Why we require earthing in buildings. and where it is installed in different buildings ? **8**  
(b) Explain different type earth electrodes. **7**

### **Part D**

7. (a) Write general aspects lightning services. **10**  
(b) Describe the aspects of air-conditioning. **5**
8. (a) Explain the process of protection and testing in commercial buildings. **10**  
(b) Discuss BMS (Building Management System) and draw its architecture. **5**

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