

**B.Tech. SEM -V Electrical 2014 Course (CBCS) : SUMMER - 2019**  
**SUBJECT: ELECTRICAL ESTIMATION, COSTING & INSTALLATION**

Day: Tuesday  
Date: 14/05/2019

S-2019-2665

Time: 10.00 AM TO 01.00 PM  
Max. Marks: 60

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Assume suitable data if **NECESSARY**.
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- Q.1** a) What are the different IE rules related to electrical installations? (05)  
b) What is the procedure for submission and opening of tenders? (05)
- OR**
- a) What are the requirements of valid contract and good contractor? (05)  
b) What do you mean by work to permit? Explain in brief. (05)
- Q.2** a) What are different types of service connections? Explain in brief. (05)  
b) How do you explain cable jointing? (05)
- OR**
- a) How do you explain methods of installation of service connections? (05)  
b) What do you mean by overhead service connections? (05)
- Q.3** a) Write a note on electrification of residential installation. (05)  
b) What are general rules and guidelines for positioning of equipments? (05)
- OR**
- a) What are the steps involved in selection of size of wires? State factors involved in wire selection. (05)  
b) How to select rating of main switch in residential installation? (05)
- Q.4** a) How to decide ratings of wiring accessories? (05)  
b) How to decide proper method of earthing for commercial installation? (05)
- OR**
- a) What are contingencies charges and profit margin? Give example. (05)  
b) What are different types of cables required for commercial installations according to size and core? (05)
- Q.5** a) Write a note on ELCB, also mention specifications of ELCB with its applications. (05)  
b) What are different guidelines about power wiring and motor wiring? (05)
- OR**
- a) Explain how to decide rating of MCB in industries? (05)  
b) Write a note on earthing for industrial installation with costing? (05)
- Q.6** a) What are different types of maintenance? Explain any one in brief. (05)  
b) What is condition monitoring? Explain. (05)
- OR**
- a) How do you explain maintenance strategy? (05)  
b) Write a note on advanced tools and techniques of condition monitoring. (05)

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