

**B.TECH. SEM -V ELECTRICAL 2014 COURSE (CBCS) : WINTER -
2017**

SUBJECT: ELECTRICAL ESTIMATION, COSTING & INSTALLATION

Day: **Thursday**
Date: **18/01/2018**

W-2017-2137

Time: **02.30 PM TO 05.30 PM**
Max Marks. **60**

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Assume suitable data **WHEREVER** necessary.
- 3) Figures to the right indicate **FULL** marks.

- Q.1** a) Write a note on types of contracts & contractors. (05)
b) Explain what do you mean by Tenders, also state different types of Tenders. (05)

OR

- Q.1** a) Explain in detail about "Work to permit". (05)
b) Write a note on comparative statements for selection of contractors. (05)

- Q.2** a) Write down advantages of underground service connections over other types. (05)
b) State different types of service connections and explain their features. (05)

OR

- Q.2** a) Explain what do you understand by panel designing. (05)
b) Write a note on "Service connections for 11KV H.T. consumers". (05)

- Q.3** a) Write what do you mean by selection of rating of main switch, distribution board, M.C.B. & ELCB. (05)
b) State and explain various wiring accessories used in case of residential installation. (05)

OR

- Q.3** a) How do you take into account overload / future expansion while selecting size of wire / cable during installation? (05)
b) State procedure for load calculation and specify important considerations required. (05)

- Q.4** a) Explain what do you mean by contingencies charges? Give example. (05)
b) Explain in brief about profit margin with example. (05)

OR

- Q.4** a) State difference between MCB and ELCB. (05)
b) State and explain about various accessories involved in distribution board. (05)

- Q.5** a) Explain method of laying cable in industrial installation. (05)
b) Write stepwise procedure to decide size of cable for industrial installation. (05)

OR

- Q.5** a) Explain rules and regulation that need to be followed in Industrial installation. (05)
b) Explain guidelines about power wiring & motor wiring. (05)

- Q.6** a) Explain preventive maintenance with necessary examples. (05)
b) Write a note on advanced tools and techniques of condition monitoring. (05)

OR

- Q.6** a) Write comparison of different maintenance types. (05)
b) How to select maintenance type in order to ensure smooth operation of electrical equipments. (05)