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Seat No.	

B.E. (Electrical) (Part - IV) (Semester - VIII) Examination, May - 2015
ELECTRICAL INSTALLATION TESTING & MAINTENANCE
Sub. Code : 49430

Day and Date : Saturday, 09 - 05 - 2015 **Total Marks : 100**

Time : 2.30 p.m. to 5.30 p.m.

Instructions :
1) **Attempt any three questions from each section.**
2) **Figures to the right indicate full marks.**
3) **Draw suitable diagram wherever necessary.**

SECTION - I

Q1) a) Explain tools, accessories required for electrical installation maintenance and repair work. **[8]**

b) Explain causes and preventions of Electrical accidents. **[8]**

Q2) a) Explain about the connection of jumpers Tee off points and dead ends in power transmission sector. **[8]**

b) Explain in details about patrolling of power lines and also explain patrol report. **[8]**

Q3) a) State the requirement of measurement of insulation resistance. Explain how insulation resistance between conductors is measured. **[8]**

b) Explain procedure and steps in cable jointing. Explain testing and cable handling equipments. **[8]**

Q4) a) Explain in brief abouterection of pole mounted substation and plinth mounted substation. **[10]**

b) Explain various types of construction used for busbars. State various tests on bus-bar. **[8]**

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SECTION - II

Q5) a) What is maintenance. What are various types of maintenance. Explain importance of each in brief. **[10]**

b) State necessasity of Earthing. Explain different earthing methods. **[8]**

Q6) a) Explain in brief maintenance schedule of SF_6 circuit breaker. **[8]**

b) Explain the procedure to obtain the 'permit to work' and 'cancellation of permit'. **[8]**

Q7) a) State the necessity of testing transformer oil. Explain how test is carried out. State the importance of this test. **[8]**

b) Explain in details about Indian Electricity Rules for domestic installation. **[8]**

Q8) Write short note on any two of the following. **[16]**

a) Precaution to be taken against Electric Shock.

b) Laying of service lines and installation of Energy meters.

c) Installation of bus-bars.

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