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Roll No.

220963

6 th Sem. / Electrical

**Subject : Installation and Maintenance
of Electrical Equipment**

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Meggar is used to measure (CO1)

- a) Insulation resistance b) Earth resistance
c) Power d) Frequency

Q.2 Continuity of electrical circuit is checked by (CO1)

- a) Voltmeter b) Ammeter
c) Ohmmeter d) Meggar

Q.3 As per Indian electricity standard, what is the allowable voltage variation in low and medium voltages supply (CO2)

- a) 2% b) 4%
c) 6% d) 10%

Q.4 Buchholz relay is used in (CO4)

- a) Transformer b) Line protection
c) generator d) Motor protection

Q.5 A short length of conductor connected on either side of pole is called (CO3)

- a) Jumpers b) bracing
c) Cradle guard d) All of these

Q.6 In which of the following test to be conducted on induction motor, reduced voltage is applied. (CO4)

- a) Blocked rotor test b) No load test
c) open circuit test d) None of these

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 SWG = mm. (CO1)

Q.8 Rule 31 of IER provide for at consumer's premises. (CO1)

Q.9 Earth tester is known as _____ (CO2)

Q.10 In voltage ratio test on transformer test reading of voltmeter is (CO3)

Q.11 Measurement of slip conducted under _____ (CO3)

Q.12 Preventive maintenance is also called as _____ (CO4)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 What are the various tools used in installation, maintenance and repair work? (CO1)
- Q.14 Explain the maintenance of Cable. (CO3)
- Q.15 Explain electrical accident & its causes? (CO1)
- Q.16 Discuss the purpose of Installation of electrical machines. (CO2)
- Q.17 Explain the Maintenance of Electric motor (CO4)
- Q.18 Explain the installation process of a Transformer (CO4)
- Q.19 Discuss the IER rules Number 79 and 80. (CO2)
- Q.20 Explain the testing of transmission line before commissioning (CO4)
- Q.21 Discuss the maintenance schedule of CT and PT. (CO3)
- Q.22 Explain the tests performed on Insulators. (CO4)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Describe the Maintenance of Transmission & Distribution Lines in details. (CO3)
- Q.24 Explain in detail the Meggar along with its working and diagram (CO2)
- Q.25 Discuss the various tests performed on Electric Motors in details. (CO4)