

- Q.26 Write the components of overhead transmission line?
- Q.27 Explain Indian electricity rules for line crossing over railways and bridges?
- Q.28 Explain the process of locating a fault using megger.
- Q.29 Explain the maintenance of motors in detail.
- Q.30 How you can improve the power factor?
- Q.31 Write the various parameters in handling of tools.
- Q.32 Write about different methods of fault localization in cables.
- Q.33 Write a note earthing system for substation?
- Q.34 Why electric fuses are always connected in series in an electrical circuit?
- Q.35 Write the procedure for testing insulation resistance to earth in domestic installation. What is the value of insulation resistance?

Section-D

- Note:** Long answer Questions. Attempt any two Questions out of three Questions. (2x10=20)
- Q.36 Explain the Electricity rules of IS standards for prevention of accidents.
- Q.37 Discuss in detail the insulation resistance measurements techniques.
- Q.38 Explain in detail, the different methods of laying an underground cable.

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6th Sem / Elect. Engg. Sub. : Installation & Maintenance of Electrical Equipment

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory. (10x1=10)

- Q.1 What is the use of current transformers?
- stepping up AC current
 - Measuring and protection
 - Stepping down AC current
 - Both B & C
- Q.2 What is the full form of ELCB?
- Electronic loss circuit breaker
 - Earth leakage circuit breaker
 - Electronic least circuit breaker
 - Earth loss circuit break
- Q.3 The earth tester is used to measure _____
- Insulation resistance
 - Earth resistance
 - Voltage\
 - None of the above
- Q.4 The earthing is necessary to give protection against _____.
- Voltage fluctuation
 - Overloading

- c) Danger of electric shock
 - d) High temperatures of the conductors
- Q.5 Which what is the value of minimum clearance distance that equipment should be kept away from power lines of 50KV lines?
- a) 10feet b) 20 feet
 - c) 50 feet d) 100 feet
- Q.6 Which of the following material is used to measure insulation resistance?
- a) Wheatstone bridge b) Galvanometer
 - c) Megger d) Kelvin double bridge
- Q.7 Isolator in substation is open under _____ condition.
- a) No load b) Short circuit
 - c) Full load d) None of the above
- Q.8 Which solutions are added into the lead acid battery?
- a) Distilled water b) acid water solution
 - c) Transformer oil d) Both A & B
- Q.9 The rating of fuse wire is always in expressed in _____
- a) amperes b) Volts
 - c) ampere-volts d) ampere hours
- Q.10 A buchholz relay is used for _____
- a) Protection of a transformer against all internal faults
 - b) Protection against leakage current only
 - c) Protection of a transformer against all external faults
 - d) All of the above

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Section B

Note: Objective types Questions. All Questions are compulsory. (10x1=10)

- Q.11 Name the various parameters in handling of tools?
- Q.12 What are bird guards?
- Q.13 How a lighting arrestor is used in any circuit?
- Q.14 Name the various tests performed on power cable.
- Q.15 What is dead end?
- Q.16 For which type of screws, Cross head screwdriver is used?
- Q.17 Define jumper.
- Q.18 What is the full form of CT?
- Q.19 Explain danger notice.
- Q.20 What is drying out?

Section-C

Note: Short answer type Questions. Attempt any twelve Questions out of fifteen Questions. (12x5=60)

- Q.21 Explain briefly Rule 88 for guarding.
- Q.22 What are bird guards? Explain with the help of a diagram.
- Q.23 How over hauling of motors is carried out?
- Q.24 Differentiate between CT and PT.
- Q.25 With the help of suitable diag. Explain the laying of Cable
 - a) direct in ground b) in pipes
 - c) in conduits.

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