

- Q.30 Write and explain the methods of erection of pole for installation of overhead distribution line.
- Q.31 How transformer is inspected in store?
- Q.32 Classified different types of Maintenance
- Q.33 What is a fuse? Discuss the advantages and disadvantage of a fuse.
- Q.34 Why electric fuses are always connected in series in an electrical circuit?
- Q.35 Define the terms (1)anti-climbing device (ii) earth wire (iii) guy wire.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain in detail how maintenance of AC and DC motors are carried out.
- Q.37 Define guarding and explain the different types of guarding with the help of diagrams
- Q.38 State the characteristics of transformer oil. What tests are performed for testing of transformer oil?

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**6th Sem / Branch : Electrical Engg.
Subject:- Installation and Maintenance of
Electrical Equipment**

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Isolator in substation is open under _____ condition.
- No load
 - Short circuit
 - Full load
 - None of the above
- Q.2 Which type of earthing is used by transmission lines.
- Plate earthing
 - Rod earthing
 - Strip earthing
 - None of the above
- Q.3 What is the use of current transformer ?
- Stepping up AC current
 - Measuring and protection
 - Stepping down AC current
 - Both (a) and (c)
- Q.4 Which among these tests are performed periodically?
- repair tests
 - maintenance test
 - Manufacture tests
 - All of the above
- Q.5 Which of the following methods is used for laying of underground cables?
- Direct laying
 - Draw-in-system
 - Solid system
 - All of the above

Q.6 Cutters are used for _____.

- a) Holding the wires
- b) Removing insulation prior to connections
- c) Cutting steels wire
- d) None of these

Q.7 The control room should be located (CO8)

- a) At one end of substation area
- b) Near the management office
- c) Away from noise and disturbance
- d) All of the above

Q.8 Bus bar are usually made of (CO6)

- a) Copper b) Al
- c) Steel d) Brass

Q.9 The topmost conductor in HV Transmission lines

- a) R-Φ conductor b) Y-Φ conductor
- c) B-Φ conductor d) Earth conductor

Q.10 Which of the following is/are the part of distribution system?

- a) Feeders b) Service mains
- c) Distributors d) All of the above

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 What is the full form of ELCB?

Q.12 Which chemical is used in Breather of transformer?

Q.13 What is dead end?

Q.14 What is use of pipe wrench?

Q.15 Define VISUAL inspection

Q.16 Define jumper

Q.17 Expand IER

Q.18 What is the purpose of isolating switches?

Q.19 Buchholz relay is used in _____.

Q.20 Which test is performed to find the no load losses ?

SECTION-C

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

Q.21 Discuss the various types of insulators used in transmission and distribution system.

Q.22 Why underground cable system is used?

Q.23 Describe installation and commissioning of transformers.

Q.24 What is a fuse? Discuss the advantages and disadvantage of a fuse.

Q.25 Explain Overhauling of motors.

Q.26 Name the workman's safety devices and also write their purpose.

Q.27 Why substations are installed near the load centers?

Q.28 Explain how a megger help in inspecting the domestic wiring.

Q.29 What is a grid substation? Explain the benefits of grid substation.