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Roll No. .... 180943

**4th Sem / Branch : Electrical Engg.**  
**Subject:- Installation & Maintenance of**  
**Electrical Equipment**

Time : 3Hrs.

M.M. : 100

**SECTION-A**

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

- Q.1 Pliers are used for (CO1)  
a) Cutting the wires  
b) Twisting of wire  
c) Cutting the steel wire  
d) None of above
- Q.2 Meggar is used to measure (CO7)  
a) Insulation resistance  
b) Earth resistance  
c) Power  
d) Frequency
- Q.3 Fuse wire are made of which material (CO3)  
a) Tungsten                      b) Nichrome  
c) Alloy of tin lead          d) All of above
- Q.4 The grid sub-stations are generally (CO6)  
a) Indoor sub-stations  
b) Outdoor sub-stations  
c) Pole mounted sub-stations  
d) Underground sub-stations

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- Q.5 What does PTW means? (CO8)  
a) Permission to work    b) Permit to work  
c) Both a & b              d) None of these
- Q.6 The electric power can be transmitted by (CO4)  
a) Overhead system      b) Underground system  
c) Either a & b              d) None of the above
- Q.7 Corrective maintenance is needed when (CO9)  
a) Equipment fails  
b) Equipment producing noise  
c) Both a & b  
d) None of the above
- Q.8 The colour of fresh dielectric oil used in transformer is (CO6)  
a) Dark Brown              b) Pale Yellow  
c) Pale Pink                  d) None of above
- Q.9 Which I.E. rule is applicable for Danger Notices (CO1)  
a) Rule No. 53              b) Rule No. 35  
c) Rule No. 90              d) None of above
- Q.10 In overhead lines, we generally use (CO2)  
a) Copper conductors      b) ACSR conductors  
c) AI conductor              d) All of above

**SECTION-B**

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

- Q.11 Name the instrument used for removing insulation from a wire (CO1)
- Q.12 Define underground cable (CO3)

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- Q.13 Write one causes of dim light (CO8)  
 Q.14 CT stands for \_\_\_\_\_ (CO6)  
 Q.15 Name two cable handling equipment. (CO4)  
 Q.16 Define patrolling. (CO8)  
 Q.17 Explain IER. (CO1)  
 Q.18 Name two types of substations. (CO4)  
 Q.19 Define maintenance. (CO9)  
 Q.20 Name any two workmen's safety devices. (CO1)

### SECTION-C

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

- Q.21 Explain the different methods of laying of underground cables. (CO4)  
 Q.22 Explain the cable handling equipment in detail. (CO3)  
 Q.23 Write the effects of open or loose neutral connection. (CO8)  
 Q.24 Write three differences between overhauling and maintenance. (CO9)  
 Q.25 Write and explain Rule 88 for guarding. (CO1)  
 Q.26 Write the maintenance schedule of motor. (CO6)  
 Q.27 Define the terms (i) Guy wire (ii) anti climbing device (iii) danger plate (CO2)  
 Q.28 Explain current and voltage transformer. (CO8)  
 Q.29 Explain the functions of any five components used in substation. (CO6)  
 Q.30 Explain how the installation of energy meter is carried out in consumer premises. (CO2)

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- Q.31 Explain the artificial respiration method used for recovering a person, who is subjected to electric shock. (CO7)  
 Q.32 Explain the process of dehydration of transformer. (CO6)  
 Q.33 Explain patrolling and visual inspection of lines? (CO7)  
 Q.34 What is substation? Explain different type of substation. (CO6)  
 Q.35 Explain different methods of laying an underground cable. (CO4)

### SECTION-D

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

- Q.36 What are causes of dim and flickering lights? Explain the methods for rectifying it. (CO5)  
 Q.37 Write maintenance schedule of transmission and distribution system. (CO6)  
 Q.38 Explain the different types of erection methods used for poles towers with the help of diagrams. (CO2)

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