

No. of Printed Pages : 4  
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180943

**4th Sem / Elect.**

**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 Pin type insulators are used (CO3)  
a) upto 11 KV                      b) upto 33 kv  
c) above 33 kv                      d) all of above
- Q.2 The topmost conductor in HV Transmission lines (CO2)  
a) R - conductor                      b) Y - conductor  
c) B- conductor                      d) Earth conductor
- Q.3 Guy wire is employed for (CO6)  
a) Protection against gauges  
b) Providing emergency earth route  
c) Supporting the pole  
d) Both (b) and (c)
- Q.4 Main causes of failure of an electrical equipment due to poor maintenance. (CO9)  
a) Poor insulation                      b) Wear and tear  
c) A and b                                  d) None of these

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- Q.5 In annually inspection which is mainly inspected in over head line. (CO3)  
a) Insulator                                  b) Tower  
c) Earth wire                                  d) All of these
- Q.6 Patrolling of power line is done (CO8)  
a) to detect the fault  
b) to reduce the supply of power  
c) to reduce the losses  
d) all of above
- Q.7 Fuse wire are made of which material (CO6)  
a) Tungsten                                  b) Nichrome  
c) Alloy of tin lead                      d) any one of above
- Q.8 For handling of underground cables equipment used (CO4)  
a) jacks    b) rollers  
c) winches                                      d) all of the above
- Q.9 Storage of transformer should be (CO6)  
a) in open space  
b) in clean and dry place  
c) in one side of the factory  
d) all these above
- Q.10 Control and relay panels are always located (CO6)  
a) in open space                      b) in control room  
c) in the switch yard                  d) none of all these

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### SECTION-B

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

- Q.11 What is a trench? (CO2)
- Q.12 Name two types of substations (CO6)
- Q.13 Explain breakdown maintenance? (CO5)
- Q.14 What is a dead end? (CO4)
- Q.15 What is drying out? (CO4)
- Q.16 Explain IER (CO1)
- Q.17 Define jumper (CO6)
- Q.18 Define tee-off-point. (CO4)
- Q.19 Name two cable handling equipment. (CO2)
- Q.20 Write one purpose of using lightning arrester. (CO9)

### SECTION-C

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

- Q.21 Describe the cause and prevention of accident. (CO1)
- Q.22 Name the 15 tools, accessories and instruments required for maintenance repair work. (CO9)
- Q.23 Explain about clearance, while line crossing over
  - i) Railway track
  - ii) streets(CO8)
- Q.24 Explain with the help of suitable sketches arrangement of strain insulator. (CO2)
- Q.25 Draw and explain different types of guarding. (CO2)
- Q.26 Explain the different methods of erection of support. (CO1)

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- Q.27 Explain the different methods of laying an underground cable (CO5)
- Q.28 Explain the procedure of inspection, storage and handling of power transformer. (CO6)
- Q.29 Explain the cable jointing procedure. (CO3)
- Q.30 What is a guy wire? Explain the different types of guy wires. (CO2)
- Q.31 Write the maintenance schedule of motor. (CO6)
- Q.32 What is the meaning of HRC fuse? How does it operate? (CO6)
- Q.33 What is the need of load shedding? (CO7)
- Q.34 Why substations are installed near the load centers? (CO6)
- Q.35 Why the neutral of the bank capacitor is grounded? (CO3)

### SECTION-D

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

- Q.36 Explain various components of substations. (CO6)
- Q.37 Explain the Maintenance schedule of
  - i) power transformer
  - ii) bus bar(CO2)
- Q.38 Explain the different types of erection methods used for poles and towers with the help of Suitable diagrams. (CO9)

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