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180943

4th Sem. / Electrical Engg.
Sub : Installation & Maintenance of Electrical Equipment

Time : 3 Hrs. M.M. : 100

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (10x1=10)

- Q.1 Material used for earth wire is (CO6)
a) Wood b) Rubber
c) Galvanised Steel d) None
- Q.2 What does PTW means? (CO9)
a) Permit to work b) Permission to work
c) Both A & B d) None of these
- Q.3 Grid sub-station are generally. (CO6)
a) Indoors/s b) Outdoors/s
c) Underground s/s d) Pole mounted s/s
- Q.4 Main causes of electrical accidents are (CO1)
a) By providing earthing
b) By obeying proper instructions
c) Working on live equipment
d) None of the above
- Q.5 Cutters are used for (CO1)
a) Holding the wires

- b) Removing insulation prior to connections
c) Cutting steel wire
d) None of the above
- Q.6 The advantages of preventive maintenance are. (CO9)
a) It reduces the breakdown to minimum
b) It retain healthy condition of equipment
c) It reduce the efficiency of the machine
d) More stand by equipment is needed
- Q.7 Pin type insulators are used (CO2)
a) Upto 11kv b) Upto 33kv
c) Above 33kv d) All of these above
- Q.8 A lead sheath in the under ground cables is provided. (CO3)
a) To protect against the entry of moisture
b) To protect the cable from mechanical injury
c) To provide strength to cable
d) To provide proper insulation
- Q.9 For unloading the underground. (CO4)
a) Drums are used cable
b) Strong wooden platform is used
c) Cranes are used
d) All of the above
- Q.10 A short length of conductor connected on either side of pole is called. (CO2)
a) Jumper b) Cradle guard
c) Bracing d) All of these

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Section-B

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

- Q.11 Expand SWG. (CO2)
Q.12 Define guy wire. (CO1)
Q.13 Define service connection. (CO3)
Q.14 Write the two types of joint. (CO2)
Q.15 Name any two types of substation. (CO4)
Q.16 Write one cause of dim light. (CO2)
Q.17 Write two electricity rules related to safety codes. (CO5)
Q.18 Name five instruments used for carrying out installation and maintenance of electrical equipment. (CO2)
Q.19 What is a bus bar? (CO6)
Q.20 What is the purpose of isolating switches. (CO3)

Section-C

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

- Q.21 What are qualities of good lightning arrestor? (CO6)
Q.22 Explain continuity test. (CO4)
Q.23 Explain about clearance, while line crossing over (i) and (ii) communication line. (CO2)
Q.24 Explain with the help of suitable sketches arrangement of suspension insulator. (CO2)
Q.25 Define the terms (1) anti-climbing device (ii) earth wire (iii) guy wire. (CO6)
Q.26 Explain the different methods of laying of underground cables. (CO4)

- Q.27 Write a short note on (i) inspection and storage of cable (ii) cable filling compound. (CO5)
Q.28 Name the various instrument used for testing the installation. (CO5)
Q.29 Write a short note on (i) any one test performed for testing of transformer oil (ii) dehydration. (CO8)
Q.30 Classified different types of Maintenance. (CO9)
Q.31 Explain the term (i) arranging of shutdown personally (ii) cancellation of permit and restoration of supply. (CO8)
Q.32 Why the neutral of the capacitor bank is grounded? (CO6)
Q.33 What is meant by flash point for transformer? (CO6)
Q.34 Why separator is used in battery? (CO7)
Q.35 Explain the various methods of joining the conductor of cables. (CO3)

Section-D

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

- Q.36 Explain the methods of laying of underground cable with a neat diagram. (CO4)
Q.37 Explain the Maintenance of (i) Power transformer (ii) motors. (CO4)
Q.38 What are the various methods of fault location in cables. (CO9)