

No. of Printed Pages : 4

180943

Roll No.

4th Sem.

Branch : Elect.

Subject : 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 Main cause of failure of electrical equipment due to poor maintenance. (CO7)
a) Poor insulation b) Wear and Tear
c) A and D d) None of these
- Q.2 Fuse wire are made of which material (CO3)
a) Tungsten b) Nichrome
c) Alloy of tin lead d) Any one of above
- Q.3 Grid sub-station are generally (CO6)
a) Indoor s/s b) Outdoor s/s
c) Underground s/s d) Pole mounted s/s
- Q.4 Which IE rule is applicable for guarding (CO1)
a) Rule No. 53 b) Rule No. 55
c) Rule No. 88 d) None
- Q5. The topmost conductor in HV Transmission lines (CO3)
a) R-F conductor b) Y-F conductor
c) B-F Conductor d) Earth conductor

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Q.6 The fuse rating is expressed in terms of (CO2)

- a) Current b) Voltage
c) VAR d) KVA

Q.7 Which of the following protects cable against mechanical injury? (CO1)

- a) Bedding b) Sheath
c) Armouring d) None

Q.8 Moisture content in the soil _____ the soil resistance. (CO3)

- a) Increase b) Decrease
c) Does not effect d) None

Q.9 Five 2V cells are connected in parallel. The output voltage is (CO1)

- a) 1V b) 1.5V
c) 1.75V d) 2V

Q.10 What is the main purpose of SF6 gas in SF6 CB? (CO2)

- a) Providing cooling b) Providing lubrication
c) Providing Insulation d) arc quenching

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 Cutters are used for _____. (CO1)

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- Q.15 CT stands for _____? (CO1)
- Q.16 Write two properties of the conductor. (CO2)
- Q.17 Write one cause of dim light. (CO3)
- Q.18 What do you mean by dehydration? (CO6)
- Q.19 Buchholz relay is used in _____. (CO6)
- Q.20 Explain IER. (CO1)

SECTION-C

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

- Q.21 Write a note on the lying of service lines. (CO1)
- Q.22 Explain how the installation of energy meter is carried out in consumer premises. (CO2)
- Q.23 Write rule 30 for service line & apparatus on consumer's premises. (CO1)
- Q.24 Explain continuity test. (CO4)
- Q.25 Why is the separator used in batteries? (CO7)
- Q.26 What is a guy wire? Explain the different types of guy wires. (CO2)
- Q.27 What is a fuse? Discuss the advantages and disadvantages of a fuse. (CO2)
- Q.28 What is meant by a flash point for a transformer? (CO6)
- Q.29 How overhauling of motors is carried out? (CO8)
- Q.30 Explain patrolling and visual inspection of lines. (CO7)
- Q.31 Name the various instruments used for testing the installation. (CO5)

- Q.32 Explain the cable jointing procedure. (CO3)
- Q.33 Why are substations installed near the load centers? (CO6)
- Q.34 Define danger plate, Guy wire, anti climbing device. (CO1)
- Q.35 Write the difference between overhauling and maintenance. (CO4)

SECTION-D

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

- Q.36 Write the maintenance schedule of a power transformer. (CO6)
- Q.37 Explain briefly the following terms (CO9)
- i) Permit to work (CO9)
 - ii) Caution notice (CO8)
 - iii) Insulation resistance (CO6)
- Q.38 What are the causes of dim and flickering lights? What are the methods for rectifying it? (CO5)