

No. of Printed Pages : 4  
Roll No. ....

180943

#### 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

Q.5 The topmost conductor in HV Transmission lines (CO3)

- a) R-F conductor
- b) Y-F conductor
- c) B-F Conductor
- d) Earth conductor

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)

(1)

180943

(2)

180943

- 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 laying 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)