Q.29 Explain how a megger helps us in inspecting the domestic wiring?
Q.30 Explain various steps taken to maintain batteries in healthy condition.
Q.31 Write down the various features which are to be kept in mind while installing an overhead line.
Q.32 Differentiate between Neutral earthing and equipment earthing.
Q.33 Distinguish between CT & PT.
Q.34 Explain how the installation of energy meter is carried out in consumer premises.
Q.35 Explain the term
(i) arranging Arranging of shutdown personality
(ii) Cancellation of permit and restoration of supply

SECTION-D

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

Q.36 Explain in detail, how maintenance of distribution transformer is carried out.
Q.37 Explain the steps for trouble shooting of electric motors.
Q.38 Define pole mounted substation. Draw diagram of pole mounted substation for 11KV/415V transformer.

Roll No. .....

6th Sem / Branch : Electrical Engg.
Sub.: Installation & Maintenance of Electrical Equipment

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 Which material of the following is used for overhead transmission lines?
a) Steelcored aluminum
b) Galvanized steel
c) Cadmium copper
d) All of the above

Q.2 Which among these tests are performed periodically ?
a) Repair tests
b) Maintenance test
c) Manufacture tests
d) All of the above

Q.3 Megger is used to measure
a) Insulation resistance b) Earth resistance
c) Power d) Frequency

Q.4 Which type of joint is used in overhead line conductors jointing?
a) Tee Joint b) Cross joint
c) I. Joint d) All of the above

Q.5 The objective of earthing of grounding is _____
a) To provide as low resistance possible to the ground

b) To provide as high resistance possible to the ground
c) To provide flow of positive, negative and zero sequence currents
d) None of the above

Q.6 Main causes of failure of an electrical equipment due to poor maintenance.
a) Power insulation b) Wear and tear
c) Both A &B d) None of these

Q.7 Bird guards are used (CO4)
a) To overcome the fault caused by binds
b) To overcome excessive current caused by birds coming in contact
c) To overcome the lighting stroke
d) None of these

Q.8 What is the use of current transformer?
a) Stepping up AC current
b) Measuring & protection
c) Stepping down AC current
d) Both B and C

Q.9 Generally grounding is provided for_____
a) Only for safety of the equipment
b) Only for safety of the operating personnel
c) Both A & B
d) None of the above

Q.10 Main causes of failure of an electrical equipment due to poor maintenance. (CO7)
a) Poor insulation b) Wear and tear
c) A & D d) None of these

SECTION-B

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

Q.11 Which test is performed to find the no load losses?
Q.12 What are the components of distribution system?
Q.13 Write one cause of Dim light.
Q.14 Material used for the jumper should be _____ as that of line conductor.
Q.15 What is the full form of BDV?
Q.16 Explain permit to work?
Q.17 Define tee-off-point.
Q.18 Write one purpose of using lighting arrester.
Q.19 Why a danger plate is used?
Q.20 Describe service line.

SECTION-C

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

Q.21 Explain various precautions while handling the tools.
Q.22 Write different types of maintenance practices.
Q.23 Describe methods for drying out of electrical machines.
Q.24 What is substation. Explain different types of substation.
Q.25 Write five causes of electrical accidents.
Q.26 Explain workmen's safety devices.
Q.27 What is meant by flash point for transformer?
Q.28 Name the workman's safety devices and also write their purpose.