

S.B. Roll No.....

INSTALLATIONS & MAINTENANCE OF ELECTRICAL EQUIPMENT
5TH EXAM/ELECT/0528/May'17

Duration: 3hrs

M.Marks:75

SECTION-A

Q1. Fill in the blanks.

15x1=15

- a. Without the aid of proper tools _____.
- b. Hexa-saw is main _____ used for cutting.
- c. Joints used in jointing overhead lines conductors are _____.
- d. In India high voltage transmission is mostly by _____.
- e. In overhead lines, we generally use _____.
- f. The underground cables cannot be operated _____ above.
- g. Prior to installation the machine should be _____ in dry place.
- h. Maintenance is the _____ for maintaining the machinery in working condition.
- i. For safety of operating person _____ earthing is used.
- j. The chemical used in breather is _____.
- k. The grid substation are generally _____.
- l. Fuse wire metal _____ melting point.
- m. Fuse wire protects the circuit from over _____.
- n. In which of the following test to be conducted on induction motors, reduced voltage is applied _____.
- o. The instrument used for detection of earth leakage current _____.

SECTION-B

Q2. Attempt any six questions.

6x5=30

- i. Write the various precautions in handling the tools.
- ii. Name and state the function of major components of overhead line.
- iii. Why underground cables system is used?
- iv. On arrival of electrical machines what steps you followed for their acceptance?
- v. Explain how a meggar help in inspecting the domestic wiring?
- vi. Write the maintenance schedule of transformer.
- vii. What precautions are necessary in making the joints?
- viii. State the advantages and disadvantages of various systems of cable laying in underground distribution system.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- I. Describe the inspection, storage, transportation and handling of underground cables.
- II. What are the qualities of good lightening arrester? Discuss the installation of lighting arresters.
- III. Explain the sulphur hexafluoride circuit breaker with suitable diagram.
- IV. State the characteristic of oil transformer oil. What tests are performed for testing of transformer oil?
- V. Explain half yearly, yearly and two yearly maintenance of substation.