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**6th Sem / Branch : Elect. 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 the instrument used for detection of earth's leakage current is _____.
a) ELCB b) MCB
c) Megger d) All of the above

Q.2 What is the full form of MCCB?
a) Main current circuit breaker
b) Major current circuit breaker
c) Moulded case circuit breaker
d) Main case circuit breaker

Q.3 Which chemical is used in breather?
a) Asbestos fiber
b) Silica Gel
c) Silica sand
d) Sodium chloride

Q.4 the fuse wire metal is having _____ melting point.
a) Low b) High
c) Infinite d) Zero

Q.5 Insulation resistance of a cable is measured by what type of meter?

- a) MCB
- b) Lighting arrestor
- c) Megger
- d) None of the above

Q.6 What are the main purpose of earthing?

- a) Provide a path for leakage current
- b) Provide electric shock safety
- c) Both A & B
- d) None of the above

Q.7 The fuse is always connected in _____ with the circuit to be protected or in live/phase.

- a) Only in series
- b) Only in parallel
- c) Both in series and parallel
- d) None of the above

Q.8 Which of the following metals cannot be used as a fuse wire?
a) Copper b) Silver
c) Iron d) Lead tin alloy

Q.9 Which solutions are added into the lead acid battery?
a) Mineral oil
b) Acid water solution
c) Alkaline water
d) All of the above

Q.10 Which type of joint is used in overhead line conductors jointing?
a) Tee joint b) Cross joint
c) L Joint d) All of the above

SECTION-B

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

- Q.11 What is the main difference between grounding and earthing?
- Q.12 Which test is performed to find the no load losses?
- Q.13 Explain briefly overload protection schemes.
- Q.14 What is the process of erecting equipment known?
- Q.15 Give the full form of ACSR.
- Q.16 What is the main use of Crimper tool?
- Q.17 What is the value of horizontal clearance between two conductors for 11KV lines?
- Q.18 Write name of two type of spanners.
- Q.19 What is anchor rod?
- Q.20 What is different type of faults which occur in underground cable?

SECTION-C

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

- Q.21 Discuss the various type of insulators used in transmission and distribution system.
- Q.22 What is a lightning arrestor? What are its different types? Explain any one type briefly.
- Q.23 Explain the different methods of laying an underground cable.
- Q.24 Describe the various tests performed on power cable.
- Q.25 What is a grid substation? Explain the benefits of

having grid substations?

- Q.26 What are the causes of electrical accidents while working over transmission line?
- Q.27 What is the function of Double bus bar?
- Q.28 Explain different methods of laying an underground cable.
- Q.29 What are the qualities of good lightning arrestor?
- Q.30 Write various features which are to be kept in mind while installing an overhead line.
- Q.31 Write a note on lying of service lines.
- Q.32 Write a note on Potential transformer and current transformer.
- Q.33 Write precaution to be taken while giving first aid to the victim of electric shock.
- Q.34 Write rule 35 for danger notice.
- Q.35 Compare overhead and underground cable system.

SECTION-D

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

- Q.36 What are different tests done on underground cables before commissioning it?
- Q.37 What are the steps involved in installation and maintenance of power/distribution transformer?
- Q.38 Explain various steps taken to maintain batteries in healthy condition