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Roll No.

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 part 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 is 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