

- SECTION-D**
- Note: Long answer questions. Attempt any two questions out of three Questions. (2x10=20)**
- Q.36 Classify the underground cables. Explain in details. (CO5)
- Q.37 What is string efficiency? Derive an expression for string efficiency. (CO5)
- Q.38 What is corona? Discuss the various factors affecting corona. (CO3)

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- Q.6 The underground system cannot be operated above (CO5)
 a) 220 kV b) 66kV
 c) 33kV d) 11kV
- Q.7 Distribution transformers are usually connected in (CO3)
 a) Delta/star b) Star/delta
 c) delta/star d) star/star
- Q.8 Which of the following distribution systems is preferred for good efficiency and high economy? (CO4)
 a) Single phase, 2 wire system
 b) 2 ph, 3 wire system
 c) 3 ph, 3 wire system
 d) 3 ph, 4 wire system
- Q.9 Bundled conductors are used for EHV transmission lines primarily for reducing the (CO3)
 a) Corona loss
 b) Surge impedance
 c) Voltage drop across the line
 d) None of the above
- Q.10 In the case of an HVDC system, there is (CO3)
 a) Charging current but no skin effect
 b) No charging current but skin effect
 c) Neither charging current nor skin effect
 d) Both charging current and skin effect

SECTION-B

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

- Q.11 Define line supports. (CO5)
 Q.12 What is an ACSR conductor? (CO2)
 Q.13 If the supply frequency is increased, the skin effect will _____. (CO2)
 Q.14 In short transmission lines the effect of _____ is negligible. (CO2)
 Q.15 The voltage for secondary distribution in our country is _____. (CO4)
 Q.16 Sag is independent of _____. (CO4)
 Q.17 Define Ferranti effect. (CO3)
 Q.18 What is HVDC transmission. (CO3)
 Q.19 Which material is suitable for the manufacture of armour in a single core cable? (CO5)
 Q.20 The cost of material used in a distribution circuit per kVA of the distributed power varies as _____. (CO4)

SECTION-C

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

- Q.21 Difference between feeders, distribution & service mains. (CO4)
 Q.22 State any four properties of insulating materials. (CO5)
 Q.23 What are the various components of an over head line? (CO1)
 Q.24 Compare Nominal –T and Nominal-TT method of medium transmission line. (CO2)