

- Q.29 Difference between domestic and industrial wiring.
 Q.30 What are the various method of calculating labour charge?
 Q.31 What is tender, Explain in details?
 Q.32 What is Service line, explain its types?
 Q.33 What are the requirements of good substations?
 Q.34 What are the purpose of an estimating?
 Q.35 Name different types of insulators used in overhead lines with brief description.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Estimate the material required for pole mounted substation of capacity 200 KVA, transformer of rating 11KV/440 Volts. The HT line is available about 30 meters from the proposed site?
- Q.37 Explain the comparison of different types of wiring system?
- Q.38 A multipurpose hall of 20x10x3.5 meters for the students of the engineering college is to be provided with electrical wiring. Make the location of different electrical points, switch board on the plan of the multipurpose hall show connection to each point by a single line wiring diagram. Selection wire size.

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4th Sem / Elect, Power Station Engg, Elect. & Eltx. Engg.

Subject:- Estimating and Costing in Electrical Engineering

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 From Quotations _____ statements is prepared.
- a) Verification
 - b) Repeat order
 - c) Comparative
 - d) Rate Contract
- Q.2 A tender is an_____ between two parties for execution of work
- a) Requisition
 - b) Agreement
 - c) Consistency
 - d) None of these
- Q.3 Which one is temporary wiring system?
- a) Cleat Wiring
 - b) Batten wiring
 - c) Conduit wiring
 - d) Casing capping wiring
- Q.4 Full form of SWG
- a) Steel Wire Gauge
 - b) Standard Wire Gauge
 - c) Standard Wound Gauge
 - d) None of these

- Q.5 According to IS code, the colour for the Neutral wire is usually:-
a) Red b) Green
c) Yellow d) Black
- Q.6 What is the angle between pole and stay wire
a) 30 degree b) 45 degree
c) 60 degree d) 50 degree
- Q.7 How many earth connections are required for the motor frame as per IE rule?
a) One b) Two
c) Three d) None of these
- Q.8 The outdoor substation is _____ voltage substation
a) High b) Low
c) Medium d) Any of above
- Q.9 The distribution substation mounted on a utility pole is called as:
a) Pole mounted substation
b) Underground substation
c) Foundation mounted substation
d) Open substation
- Q.10 The Indoor substation is _____ voltage substation
a) High b) Low
c) Medium d) Any of these

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 What is Contingency?
Q.12 What is Tender?
Q.13 Define Market Survey.
Q.14 Expand SWG.
Q.15 What is Substation?
Q.16 What is an ACSR?
Q.17 What is Net Price List?
Q.18 Define Domestic Installation?
Q.19 What is Insulator?
Q.20 Expand DPIC.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 What is the difference between quotation and tender?
Q.22 Explain Conduit wiring system.
Q.23 Explain Domestic Installation.
Q.24 Explain advantages and disadvantages of Casing and Capping wiring?
Q.25 Explain various types of line Supports?
Q.26 Explain types of substations?
Q.27 Explain types of Earthing.
Q.28 Prepare the Performa for Comparative Statement.