

No. of Printed Pages : 4
Roll No.

180935/170935

3rd Sem / Electrical
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 A tender is an _____ between two parties for execution of work (CO1)
a) Requisition b) Agreement
c) Consistency d) None of these
- Q.2 From Quotations _____ Statements is prepared. (CO1)
a) Verification b) Repeat order
c) Comparative d) Rate Contract
- Q.3 Full form of SWG (CO2)
a) Steel wire Gauge
b) Standard Wire Gauge
c) Standard wound Gauge
d) None of these
- Q.4 The maximum recommended load for lightning sub circuit is (CO3)
a) 400 W b) 500 W
c) 700 W d) 800 W

(1)

180935/170935

- Q.5 According to IS code, the colour for the Neutral wire is usually:- (CO3)
a) Red b) Green
c) Yellow d) Black
- Q.6 How many earth connections are required for the motor frame as per IE rule? (CO3)
a) One b) two
c) Three d) None of these
- Q.7 The Indoor substation is _____ voltage substation (CO4)
a) High b) Low
c) Medium d) Any of these
- Q.8 Which one is temporary wiring system? (CO2)
a) Cleat Wiring b) Batten wiring
c) Conduit wiring d) Casing capping wiring
- Q.9 Pole mounting substations are also known as (CO4)
a) Outdoor type b) Indoor type
c) Open type d) Basement type
- Q.10 The distribution substation mounted on a utility pole is called as (CO4)
a) Pole mounted substation
b) Underground substation
c) Foundation mounted substation
d) Open substation

(2)

180935/170935

SECTION-B

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

- Q.11 Define Market Survey. (CO1)
- Q.12 What is Contingency? (CO1)
- Q.13 Define Overhead Charges? (CO1)
- Q.14 Expand TPIC. (CO2)
- Q.15 What is Substation? (CO4)
- Q.16 What is MCB? (CO2)
- Q.17 What is an ACSR? (CO4)
- Q.18 Define Domestic Installation? (CO3)
- Q.19 What is Insulator? (CO3)
- Q.20 Define Earthing. (CO4)

SECTION-C

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

- Q.21 Prepare the Performa for supply order. (CO1)
- Q.22 Explain Comparative Statement. (CO1)
- Q.23 What is the difference between quotation and tender? (CO1)
- Q.24 Explain Casing and capping system of wiring. (CO2)
- Q.25 Explain Industrial Installation? (CO3)
- Q.26 Explain various types of line Supports? (CO4)
- Q.27 Explain types of Earthing. (CO4)
- Q.28 What is Service line, explain its types? (CO3)
- Q.29 Why it is necessary to provide earthing in domestic installations? (CO3)

(3) 180935/170935

- Q.30 Difference between domestic and industrial wiring. (CO3)

- Q.31 What are the requirements of good substations? (CO3)

- Q.32 What do you mean by outdoor and indoor substation? (CO4)

- Q.33 Explain advantages and disadvantages of Conduit wiring. (CO2)

- Q.34 Name different types of insulators used in overhead lines with brief description. (CO4)

- Q.35 What is tender, Explain in details? (CO1)

SECTION-D

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

- Q.36 Prepare a list of material and calculate cost of giving service connection to a single story building at 230V, Single phase, 50Hz having a light and fan load of 5KW. The wire is to be drawn from a pole 15 meters away from the building (CO3)

- Q.37 Estimate the material required for pole mounted substation of capacity 200KVA, transformer of rating 11KV/440 Volts. The HT line is available about 30 meters from the proposed site? (CO4)

- Q.38 Explain the comparison of different types of wiring system? (CO2)

(2360) (4) 180935/170935