

No. of Printed Pages : 4

Roll No.

180935/170935

**3rd Sem / Branch : Electrical Engg
Subject:- Estimating & Costing in Electrical Engg.**

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory $(10 \times 1 = 10)$

Q.1 At least _____ quotation are called for the purchased of material $(CO1)$
a) Three b) Five
c) One d) Two

Q.2 Full form of VIR $(CO2)$
a) Vulcanised Indian Rubber
b) Volume Indian Rubber
c) Versatile Indian Rubber
d) Batten wiring

Q.3 The wire which connect energy meter of consumer with nearest pole is called $(CO3)$
a) Distribution line b) Transmission line
c) Service line d) Bus bar

Q.4 According to IS code, the colour for the earth wire is usually
a) Red b) Green
c) Yellow d) Black

Q.5 What is the angle between pole and stay wire $(CO4)$

- a) 30 degree
- b) 45 degree
- c) 60 degree
- d) 50 degree

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 outdoor substation is _____ Voltage substation. $(CO4)$

- a) High b) Low
- c) Medium d) Any of the above

Q.8 Which one is temporary wiring system? $(CO2)$
a) Cleat wiring
b) Batten wiring
c) Conduit wiring
d) Casing capping wiring

Q.9 A _____ transformer is usually mounted on the pole, $(CO4)$
a) Power b) Current
c) Potential d) Distribution

Q.10 From Quotations _____ Statements is prepared. $(CO1)$
a) Verification b) Repeat Order
c) Comparative d) Rate Contract

SECTION-B

Note: Objective type questions. All questions are compulsory. $(10 \times 1 = 10)$

Q.11 What is Contingency? $(CO1)$
Q.12 What is Tender? $(CO5)$

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- Q.13 Expand DPIC. (CO2)
- Q.14 What do you mean by a Comparative Statements? (CO1)
- Q.15 Full form of ACSR is _____ (CO3)
- Q.16 What is Net Price List? (CO1)
- Q.17 Define Industrial Installation? (CO3)
- Q.18 What is Cleat Wiring? (CO2)
- Q.19 Define Earthing. (CO4)
- Q.20 What is Substation? (CO4)

SECTION-C

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

- Q.21 Prepare the Performa for Comparative Statement. (CO1)
- Q.22 Explain Purpose of Estimating and Costing (CO1)
- Q.23 What do you mean tender notice?
- Q.24 Explain Conduit wiring system. (CO2)
- Q.25 Explain Domestic Installation. (CO3)
- Q.26 Explain various types of line Supports? (CO4)
- Q.27 Explain types of substation? (CO4)
- Q.28 Why it is necessary to provide earthing in Industrial installation? (CO3)
- Q.29 What are the various method of calculating labour charge? (CO1)
- Q.30 What are the requirements of good substations? (CO4)
- Q.31 What are the methods for reducing earth resistance? (CO3)

- Q.32 Difference between domestic and industrial wiring. (CO3)
- Q.33 What is service line, explain its types? (CO3)
- Q.34 Differentiate between overhead and underground distribution system? (CO4)
- Q.35 What is tender, Explain in details? (CO5)

SECTION-D

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

- Q.36 Explain the comparison of different types of wiring system? (CO2)
- Q.37 A multipurpose hall of 20x10x3.5 meters for the students of the engineering college is to be proved with electrical wiring. Make the locations of different electrical points, switch board on the plan of the multipurpose hall and show connection to each point by a single line wiring diagram. Selection wire size. (CO3)
- Q.38 Draw pole mounted substation of rating 11KV/440V. List the material required for Installation with its cost. (CO4)