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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

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

(1)

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(2)

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## **SECTION-B**

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

- 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.  $(12 \times 5 = 60)$

- 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)

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.  $(2 \times 10 = 20)$

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)