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Roll No.

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

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 How many outlets are permitted in a power circuit?
a) 10 points b) 5 points
c) 2 points d) 1 point
- Q.2 At what temperature value is the insulation resistance corrected if it is measured to be different?
a) 30°C b) 25°C
c) 22°C d) 15°C
- Q.3 Which among these is type of batten wiring?
a) Using metal sheathed wiring
b) Using TRS or PVC wires
c) Both (a) and (b)
d) None of these
- Q.4 The leakage current must not be more than _____ of maximum supply current ?
a) 1/1000 b) 1/100
c) 1/5000 d) 1/500
- Q.5 What is the maximum distance between the two

successive cleats?

- a) 0.25 m b) 0.6 m
c) 0.9 m d) 1.25 m
- Q.6 What is the diameter of the GI pipe through which the earth wire needs to be taken out?
a) 13 mm diameter b) 15 mm diameter
c) 19 mm diameter d) 6 mm diameter
- Q.7 Which among these is a type of internal wiring?
a) Cleat wiring b) Conduit wiring
c) Both (a) and (b) d) All of these
- Q.8 Branch circuit must not feed more than _____ points.
a) 12 b) 5
c) 10 d) 8
- Q.9 What should be the value of earthing resistance for large power stations?
a) 1 Ω b) 0.5 Ω
c) 2 Ω d) 5 Ω
- Q.10 Which material is used for wiring continuous bus bar?
a) Aluminum b) Copper
c) Both (a) and (b) d) None of these

SECTION-B

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

- Q.11 What is an Costing ? (CO1)

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- Q.12 What do you mean by specification of material. (CO3)
- Q.13 What is price list? (CO1)
- Q.14 What is Quotation? (CO1)
- Q.15 Define Contingencies ? (CO1)
- Q.16 What is loss? (CO1)
- Q.17 Define depreciation. (CO2)
- Q.18 What is MCB? (CO2)
- Q.19 What is Switch? (CO2)
- Q.20 Full form of P.V.C? (CO2)

SECTION-C

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

- Q.21 What is Earnest Money? (CO3)
- Q.22 Advantage of estimation. (CO1)
- Q.23 Write about qualities of a good estimator. (CO1)
- Q.24 What is Net prices? (CO1)
- Q.25 Name the various type of wiring system. (CO2)
- Q.26 List of different wiring components commonly used. (CO2)
- Q.27 Describe four major type of fuses. (CO2)
- Q.28 Define service connection. (CO4)
- Q.29 Name different type of electrical faults. (CO2)
- Q.30 What is Substation. (CO4)
- Q.31 What is stranded conductor? (CO3)
- Q.32 Define Earthing. (CO3)

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- Q.33 Differences between domestic and industrial wiring. (CO3)
- Q.34 What are the various method to reduce earthresistance ? (CO3)
- Q.35 What are the merits and demerits of outdoorsubstation? (CO4)

SECTION-D

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

- Q.36 A multipurpose hall of $30 \times 15 \times 3.5$ meters for the students of the engineering college is to be provided with electrical wiring. Make the location of different electrical points, switchboard on the plan of the multi purpose hall and show connection to each point by a single line wiring diagram. Selection wire size. (CO3)
- Q.37 Draw a single line diagram of 33 K.V. Sub Station
- Q.38 Prepare a list of material for giving service connection by 2 core PVC cable to a house (Single storey) at 230 V single phase 50 Hz. Its maximum load is 3000 watt. The supply is to be given from overload 415 V 3 phase 4 wire line which is 50m away from the house. (Co4)

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