

- Q.29 Name different type of electrical faults.
- Q.30 What is Grid Substation.
- Q.31 What is Stranded Conductor?
- Q.32 What is Earthing?
- Q.33 What do you mean by Supply Order?
- Q.34 Explain Concealed conduit wiring system.
- Q.35 What do you understand by earnest money?

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Roll No.....

**Branch : 4th Sem. Elec. Power Station Engg./Elet.& Eltx. Engg.
Subject : Estimating & Costing In Elect. Engg.**

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 The total impedance of the earth continuity conduction (ECC) should be:
- a) 0 ohm
 - b) 1 ohm
 - c) 10 ohm
 - d) $\frac{1}{2}$ ohm
- Q.2 The type earthing suitable for sandy areas is:
- a) Horizontal strip earthing
 - b) Rod
 - c) Plate
 - d) Pipe
- Q.3 As per IE rules, the terminal voltage must be within the _____ range, if the nominal voltage is 240V.
- a) 225 V to 255 V
 - b) 228 V to 252 V
 - c) 220 V to 260 V
 - d) 215V to 265V
- Q.4 Which Indian Electricity rule is applicable to service mains?
- a) Rule 30
 - b) Rule 39
 - c) Rule 73
 - d) Rule 51

SECTION-D

Note: Long Answer type question. Attempt any two questions.
(2x10=20)

- Q.36 A Room of 5x3x3.5 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 room and show connection to each point by a single line wiring diagram. Selection wire size.
- Q.37 What is Industrial wiring and mention size and features of Industrial wiring?
- Q.38 Enlist and describe in brief the equipment required for a 11 KV/400V, 200 KVA indoor substation and switch gear installation.
- b)

- 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 maximum load that can be connected in a circuit connecting only lighting points?
 a) 500 watts b) 750 watts
 c) 800 watts d) 1000 watts
- Q.7** Which among these is a type of internal wiring?
 a) Cleat wiring b) Conduit wiring
 c) CTS wiring d) Both A & B
- Q.8** What should be the value of earthing resistance for large power stations?
 a) 1 W b) 0.5 W
 c) 2 W d) 5 W
- Q.9** What is the maximum number of lighting points that can be connected circuit?
 a) 5 b) 10
 c) 8 d) 12
- Q.10** Which of the following is the advantage of a joint box system?
 a) The fault location is easy to detect
 b) The cost of wiring is saved
 c) It require least skilled labour
 d) No chance of short circuit

SECTION-B

- Note:** Objective type questions. All questions are compulsory.
 (10x1=10)
- Q.11 What do you mean by Schedule Costing?
 Q.12 What do you mean by specification of material.
 Q.13 What is Enquiry.
 Q.14 What is Supply Order?
 Q.15 Define Book Value?
 Q.16 What is Profit?
 Q.17 The fuse have _____ melting point.
 Q.18 What is MCB?
 Q.19 Define Depreciation?
 Q.20 Full form of P.V.C.?

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions.
 (12x5=60)
- Q.21 What is storage charges?
 Q.22 What is security deposit?
 Q.23 How the size of main switch and distribution board is decided?
 Q.24 On what basis the size of wire for a load is calculated.
 Q.25 What is a service line?
 Q.26 What is ACSR?
 Q.27 What are the components of overhead lines?
 Q.28 What is the size of earth wire used in Transmission line?