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**4th Sem. / Electrical
Sub. : Estimating and Costing in Electrical Engineering**

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple choice Questions. All Questions are compulsory. (6x1=6)

Q.1 As per BIS, the height of switch board from the floor should be _____.

- a) 0.9m
- b) 2.25m
- c) 1.0m
- d) 1.5m

Q.2 Which of the following is not used in domestic electrical wiring?

- a) Fuse
- b) Lamp Holder
- c) Switch
- d) Oil Circuit Breaker.

Q.3 Domestic electrical wiring is basically a _____.

- a) Combination of series and parallel connections.
- b) Series connection
- c) Series connection within each room and parallel connection elsewhere
- d) Parallel connection

Q.4 The following installations are required in an auditorium – 9 three pin sockets of 6 AMP each, 12 tube lights of 40 W each, 11 ceiling fan 5 exhaust fans. Number of circuits will be required

- a) 1
- b) 2
- c) 3
- d) 4

Q.5 The earnest money of unsuccessful tenders is refunded to the tenderers as soon as possible after

- a) Completion of work
- b) 1 month
- c) 3 months
- d) disposal of tenders

Q.6 Which device protects from overload and short circuit in a domestic panel board?

- a) Time delay relay
- b) Isolating switch
- c) Thermal overload relay
- d) Miniature circuit breaker

SECTION-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Residential light load is connected between _____.

(1)

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(2)

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Q.8 earth switch is connected between _____.

Q.9 What is Security deposit?

Q.10 What is the purpose of two way switch?

Q.11 Expand TPIC.

Q.12 What is the service connection?

SECTION-C

Note: Short answer type Questions. Attempt any eight questions out of ten Questions. (8x4=32)

Q.13 Explain the Administrative overhead charges.

Q.14 Distinguish between tender and quotation.

Q.15 What is the qualities of good estimator?

Q.16 Write any 5 IE rules for domestic installation.

Q.17 Write the essential elements of estimate and costing

Q.18 what are the advantage and disadvantage of Conduit wiring system?

Q.19 Calculate the full load current for a 15HP, 3 phase, 415 volts Induction motor, Power factor 0.8 lagging.

Q.20 Explain Price List.

Q.21 Why market survey is important?

Q.22 What are the requirements of a good substation?

SECTION-D

Note: Long answer questions. Attempt any two questions out of three Questions. (2x8=16)

Q.23 Design electrical installation scheme (layout and wiring diagram) of small industrial unit having 3 phase load of 30kW flour mill. Also prepare the list of materials required.

Q.24 Make a comparison on different types of wiring.

Q.25 Prepare schedule of material for Industrial load as shown in Fig.

