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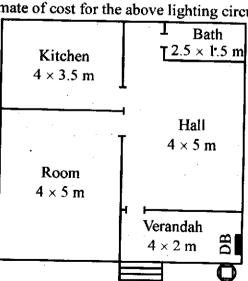
V Semester Diploma Examination, Nov./Dec. 2018

ELECTRICAL ESTIMATION & COSTING

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Note: Answer all the questions.

- (a) Define estimation. List the importance of estimation.
 (b) Draw a neat diagram of pipe earthing and label the parts. BETA CONSOLE
- 2. (a) Draw a neat diagram of underground service main and label the parts loma [All 5 ranches]
 - (b) Prepare an estimate of cost for providing single phase overhead service connection to a residential building having a load of 4 kW. The supplier pole is 15 m away from the building.
- 3. The sketch given below shows the plan of a residential building, which has to be wired up as an AEH installation in concealed conduit system of wiring plana Question Papers [2015]
 - (a) Propose the load requirement for lighting.
 - (b) Draw the wiring diagram.
 - (c) Prepare the schedule of materials for lighting circuit.
 - (d) Prepare an estimate of cost for the above lighting circuit.



(Location of Distribution board and energymeter shown)

- 4. (a) Write the specification of cable used for providing power supply to a 15 HP induction motor.
 - (b) A 15 HP irrigation pump set is to be installed at the centre of a pump house of size 5 m × 5 m. Assume ceiling weight as 3.5 m. Draw the wiring plan for power circuit. Prepare schedule of materials with specification.
- 5. Prepare the schedule of materials required with specifications for running of 15 kW long 415 V. LT distribution line. (Assume span length as 50 m) 20

OR

Prepare the schedule of materials with specifications, required for tapping and extending 11 kV line for a distance of 10 km. Assume average span as 80 m. Assume that the support has to be anchored for every kilometer.

6. Draw the single line diagram of 66 kV / 11 kV, 5 MVA substation and label it.

OR

Prepare the schedule of materials required for running a 100 km long 110 kV single circuit transmission line. Assume average span as 300 m.



Diploma Question Papers [2015-19]

Beta Console Education