

Sub-EI&E

Assignment -01

1. Draw the neat sketch of pipe earthing.
2. What are the factor affecting the earth resistance.
3. Estimate the quantity of material required for plate earthing.
4. Estimate the quantity of material required for pipe earthing.
5. Name at least 10 accessories required for pipe earthing.
6. Write short noytes on the following
 - 1) Conductor material used in cable
 - 2) Insulating m,aterial used in cable.
 - 3) Conduit assosiries and fitting
 - 4) Lighting accessories and fitting
- 7.State and describe various types of lighting scheme.
- 8.What are the requirement of good lighting.

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Assignment -02

1. write the full form of following

i) TPIC ii) TPICN iii) TPMO iv) TRS v) VIR vi) XLPE

vii) CTS viii) PILC ix) MDB x) SDB

2. WHAT IS THE PERMISSIBLE VOLTAGE DROP IN INTERNAL DOMESTIC WIRING.

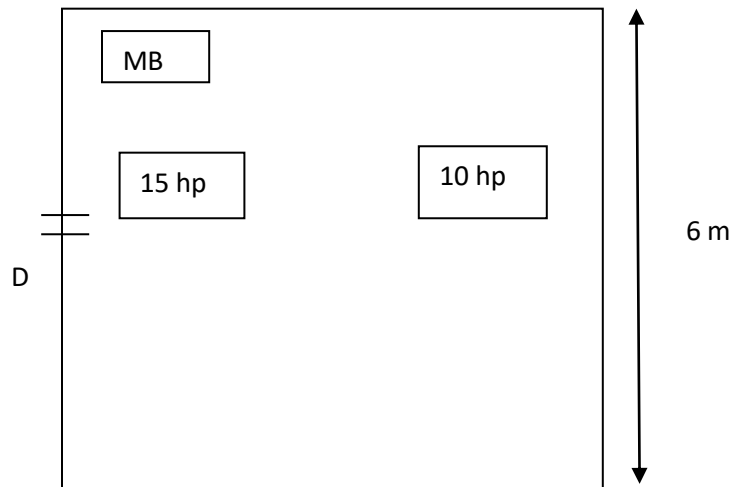
3. Give a comparison between various system of wiring.

4. Draw the electrical ckt and estimate the quantity of material required for pvc casing capping used in house . assume the height of building is 3.5 mm and one plug is given in each room.

3.6 *2.1 open tusky	4.8*4.8
3.6 *2.7	

ASSIGNMENT- 03

1. why Fuse is not provided in neutral of ac supply
2. how many earth connection are required for motor frame as per IE rule.
3. what is the maximum load that is permitted in a power circuit and lighting circuit.
4. List out material required to provide wiring with small workshop having work floor of 4*6 mm and consist of two 3-phase induction motor



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ASSIGNMENT- 04

1.what is the minimum ground clearance required for 11kv and 132kv transmission line.

2. write the full form of following

1)AAC 2)ACSR 3)GO 4) GO 5)SWG

3.Draw the neat sketch of a stay which will provide at the end pole and also prepare the list of material required to install the stay'

4.A 1 km long over head distribution line of 40volt, 3phase ,50hz is to be erected along a straight route from 1000kva ,11/0.4kv pole mounting substation. the is to be laid with 6/1*3 mm ACSR conductor on PCC poles of 9mm length , make an estimate and if the span between adjacent pole is 50m draw a rough sketch.

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ASSIGNMENT- 05

- 1.prepare a list of material required for giving service connection to a single stored building at 230v,50hz, single phase having a load of 5kw. The supply is to be given from overhead lines 15m away from the building. also draw the neat sketch of it.
- 2.what do you understand by service line. Write down the various methods of installing service line.
- 3.write short notes on service line.

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ASSIGNMENT- 06

1. Differentiate between pole mounted sub-station and plinth mounted sub-station.
2. write short notes on
 - (a) pole mounted sub-station
 - (b) plinth mounted sub-station
3. prepare a list of quality of material required for erection of 100KVA ,11/0.4kv pole mounted distribution substation.
4. Estimate the quantity of materials required for installation of a 250kva,11/0.4 kva plinth mounted distribution substation with neat sketch.

