

Question no. 1

What is earthing?

Answer

Connecting electrical machines to earth

Question no. 2

The size of the earth wire is determined by.

Answer

The ampere capacity of the service wire.

Question no. 3

Earthing is necessary to give protection against.

Answer

Danger of electric shock

Question no. 4

Solid grounding is adopted for voltages below.

Answer

660V

Question no. 5

The advantage of neutral earthing is.

Answer

1. Freedom from persistent arcing grounds
2. Over voltages due to lightning can be discharged to earth
3. Simplified design earth fault protection

Question no. 6

The earthing wire should have.

Answer

Negligible resistance

Question no. 7

What should be the value of earthing resistance for large power stations?

Answer

0.5 Ω

Question no. 8

What is the main purpose of earthing?

Answer

1. Provide path for leakage current
2. Provide electric shock safety
3. Provide constant line voltage

Question no. 9

Which of the following is/are methods of earthing?

Answer

1. Plate earthing
2. Strip earthing
3. Pipe earthing

Question no. 10

The minimum length of pipe electrode used for earthing should not be less than.

Answer

2m

Question no. 11

What is the size of Standard Wire Gauge or (SWG) For pipe earthing is?

Answer

8 SWG

Question no. 12

A ground wire is used to.

Answer

Connect a circuit conductor or other device to an earth-plate.

Question no. 13

At a pressure of 500V applied between each live conductor and earth for a period of 1 minute, the insulation resistance of low and medium voltage installation shall be at least.

Answer

1 mega-ohm

Question no. 14

The advantages of pipe earthing is/are

Answer

1. Use for high power machine
2. Suitable for continuity test
3. Cheaper

Question no. 15

While installing pipe earthing a rock is encountered then the rod shall be driven at an angle of.

Answer

45 degrees

Question no. 16

The earthing electrodes should be placed within what distance in meters from the building whose installation system is being earthed.

Answer

1.5m

Question no. 17

The earth wire and earth electrode are made up of.

Answer

Same material

Question no. 18

What is the diameter of the GI pipe through which the earth wire needs to be taken out?

Answer

13 mm diameter

Question no. 19

Which earthing is the best form of earthing and is very cheap in cost?

Answer

Pipe

Question no.20

The Soil resistance depends on.

Answer

1. NaCl
2. Moisture
3. Depth of the electrode

Question no. 21

Ground resistance should be designed such that.

Answer

Grounding resistance should be as low as possible

Question no. 22

Generally grounding is provided for.

Answer

1. For the safety of the equipment
2. For the safety of the operating personnel

Question no. 23

Which of the following will damage when High voltages originated due to Line to Ground faults in ungrounded system?

Answer

Insulation damage

Question no. 24

Which type of earthing is used by transmission lines?

Answer

Strip earthing