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## Earthing or Grounding MCQ Test

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We have listed below the best **Earthing or Grounding MCQ Questions**, that check your basic knowledge of Earthing or Grounding. This **Earthing or Grounding MCQ Test** contains 20+ Multiple Choice Questions. You have to select the right answer to check your final preparation for the Electrical Engineering Exam/Interviews. apart from this, you can also download the **Earthing or Grounding MCQ PDF**, completely free from the link given below.

#### Q1. The Soil resistance depends on .....

- A. Nacl
- B. Moisture
- C. Depth of the electrode
- **D. All of the above**

#### Q2. Ground resistance should be designed such that

- A. Grounding resistance should be always zero
- **B. Grounding resistance should be as low as possible**
- C. Grounding resistance should be as high as possible
- D. All of the above

#### Q3. The earthing rod orientation in the pit should be:

- A. 45°
- B. Horizontal
- **C. Vertical**
- D. 75°

#### Q4. Which one is the easiest method for earth resistance measurement?

- A. Fall of potential
- B. Selective measurement
- C. Stakeless measurement
- D. All are equally easy

**Q5. Electrical resistivity is inversely proportional to the depth of grounding / earthing rod into the ground.**

- A. True
- B. False

**Q6. In any system (grounding or ungrounding), a \_\_\_\_ coupling exist between the system conductors and the adjacent grounding surfaces:**

- A. Capacitance
- B. Inductance
- C. Resistance
- D. None of the above

**Q7. Earthing is necessary to give protection against \_\_\_\_.**

- A. Danger of electric shock
- B. Voltage fluctuation
- C. Overloading
- D. High temperature of the conductors

**Q8. The advantage of neutral earthing is:**

- A. Freedom from persistent arcing grounds
- B. Over voltages due to lightning can be discharged to earth
- C. Simplified design earth fault protection
- D. All of the above

**Q9. Which one of the following is used in earth pit?**

- A. Salt and charcoal
- B. Graphite and magnesium

- C. Graphite and Silver
- D. Aluminum and Iron

**Q10. In a ungrounded system, during the fault the protective relays may not able to operate because of the low fault current:**

- A. True
- B. False

**Q11. Moisture content in the soil \_\_\_\_\_ the earth soil resistance.**

- A. increase
- B. decrease
- C. does not affect
- D. none of the above

**Q12. Generally grounding is provided for:**

- A. only for the safety of the equipment
- B. only for the safety of the operating personnel
- C. Both (A) and (B)
- D. None of the above

**Q13. Which of the following solution is used to reduces the earth's resistivity?**

- A. NaCl
- B.  $\text{Na}_2\text{SO}_4$
- C. CaCl
- D.  $\text{Ca}_2\text{CO}_3$

**Q14. Which of the following will damage when High voltages originated due to Line to Ground faults in ungrounded system?**

- A. Insulation damage
- B. Conductors melt down
- C. Will not have any effect
- D. Fires

**Q15. The objective of earthing or grounding is \_\_\_\_.**

- **A. to provide as low resistance possible to the ground**
- B. to provide as high resistance possible to the ground
- C. to provide flow of positive, negative and zero sequence currents
- D. None of the above

**Q16. Soil resistance depends on:**

- A. depth of the electrode
- B. moisture
- C. Nacl
- **D. All of the above**

**Q17. Step Potential is associated with the potential between the two feet separated by about 1 meter.**

- **A. True**
- B. False

**Q18. Which of the following system produces highest ground fault current when a fault to ground occurs?**

- A. Ungrounded system
- B. Resistance grounding system
- **C. Solid grounding system**
- D. Reactance grounding system

**Q19. Which type of earthing is used by transmission lines?**

- A. Plate earthing
- B. Rod earthing
- **C. Strip earthing**
- D. All of the above

**Q20. What is earthing?**

- **A. connecting electrical machines to earth**
- B. providing a connection to the ground
- C. connecting the electrical machines to source
- D. providing a source of current

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