

1. A purpose of guard ring in a megger is to \_\_\_\_\_

- Protect the circuit
- Eliminate error(correct)
- Reduce current flow
- Limit the temperature

2. Megger is used to measure \_\_\_\_\_

- Medium resistance
- Very low value of resistance
- High value of resistance(correct)
- Low value of resistance

3. Megger is essentially a

- Multimeter
- Crossed – coil ohmmeter(correct)
- Shunt type ohmmeter
- Series type ohmmeter

4. The maximum speed of the megger is kept at:

- 160 rpm(correct)
- 100 rpm
- 120 rpm
- 140 rpm

5. Megger works on the principle of \_\_\_\_\_

- Kirchhoff's current laws
- Ohm's law
- Gauss's law
- Electromagnetic induction(correct)

6. Which of the following is used for the measurement of the insulation resistance?

- Megger(correct)
- Wattmeter
- Ammeter
- Voltmeter

7. The supply to the megger is given by \_\_\_\_\_

- AC motor
- AC generator
- Permanent magnet dc motor
- DC generator(correct)

8. What is a Megger?

The word “Megger” which is derived from the words “megohms” and “tester” is an exclusive Trade Mark of Evershed & Vignola’s Ltd. The megohmmeter is generally called a “megger

9. How many types of Megger?

Two types of Megger

#### **Types of megger**

- Hand operated
- Electronic with test button

10. Define electronic megger?

#### **Electronic megger**

Electronic megger is provided by a battery. Scale indication is available both in Analog and Digital displays.

11. Write the advantages of Megger?

#### **Advantages**

Frequent meggering makes to understand the insulation resistance of electrical equipment such as motor, transformer, etc. thereby we come to know their healthiness.

- Physical damages can be identified, which may lead to electrical shock due to leakages.

12. Write Disadvantages of Megger?

### **Disadvantages**

Hand-driven megger is less preferred over electronic megger because it requires two persons. One for cranking and the other for testing.

- Accuracy varies with cranking the megger.

13. The role of the permanent magnet in a megger is to \_\_\_\_\_

- Provide field(correct)
- Provide voltage
- Generate power
- Balance the circuit

14. When a megger is used to measure the resistance of an electrical cable, what does a reading of infinity indicate?

- The meter is faulty
- The cable is shorted
- The cable is grounded
- The resistance is too large to measure(correct)

15. When the test terminal of the Megger is short then the pointer reads?

- Infinite
- Zero(correct)
- Negative
- None of the above

16. The dc generator in megger can generate EMFs ranging from \_\_\_\_ to \_\_\_\_\_ depending on the instrument.

- 10 V to 50 V
- 2V to 5 V
- 50V to 500V(correct)
- 5000V to 10000 V

17. . Why is the scale of a megger calibrated in megaohms?

- To indicate resistance(correct)
- To minimize the current flow
- To increase the voltage drop
- To reduce the temperature

18. . A megger is prevented from exceeding its rated output voltage by which of the following actions?

- Battery discharge limits the voltage
- Tension in the cable
- Friction clutch slippage(correct)
- Current leaks through internal insulation

19. When the crank of a 500-volt megger is rotated faster than its designed rate, what maximum output voltage does it produce?

- 100 volts
- 500 volts(correct)
- 520 volts
- 550 volts

20. How is the megger calibrated?

- In steps of 1 unit per division
- Based on the value of resistance to be measured
- Directly calibrated on the position of the pointer
- Reversely calibrated based on the pointer position(correct)

21. What will be the effect on the pointer if the voltage applied in the megger is increased?

- No effect(correct)
- The pointer will indicate high resistance
- The pointer will indicate low resistance
- The pointer will burn out

22. Which of the following statement is correct about the limitation of megger?

❖ Statement 1:- The accuracy of measurement in megger is affected by variations in speed.

❖ Statement 2:- The Digital megger required an external power supply

- Only statement 1 is correct
- Only statement 2 is correct(correct)
- Both statements is correct
- Both statement is incorrect

23. Which of the following precaution should be taken while using a megger?

- Should be used on high resistance measurement only
- Never touch hand
- Discharge completely before using
- All of the above(correct)

24. Which of the following does not employ a null method of measurement?

- Megger(correct)
- DC potentiometer
- Kelvin double bridge
- AC potentiometer

25. How megger produced high voltage?

Testing voltage is produced by electromagnetic induction in case of hand-operated megger and by a battery in case of electronic type megger. The deflection of pointer increases with the increases in voltage in the external circuit and also decreases with the increase in current.

26. Why DC is used in megger?

DC alone is used because we need to measure only the resistance of the winding insulation. If we use AC to conduct the insulation test, we will be measuring impedance instead of the resistance as the insulation has a substantial capacitive reactance.