ITI Quiz - 05-Feb-2026 11:03 AM

Q. ID: ITISKILL5633EH

February 2026 | **ITI Ankola** | Question Paper

Duration: 30 Mins | **Total Marks: 25** | **ID: ITISKILL5633EH**

Student Name: _____ Roll No: _____

1. At which condition the cold resistance of the low voltage lamp is measured using ohmmeter?

A) Lamp is OFF at room temperature
B) Lamp is ON at 100 Degree Centigrade
C) Lamp is ON at 320 Degree Centigrade
D) Lamp is ON at 400 Degree Centigrade

2. What is the colour code for 100 Ohm resistor?

A) Brown, brown, brown
B) Black, brown, black
C) Brown, black, red
D) Brown, black, brown

3. Which unit is used to measure capacitance value?

A) Mho
B) Henry
C) Ohm
D) Farad

4. What is the reason for the use of contactors in control circuits?

A) To protect the load from arcing
B) To decrease load current
C) Supply power to loads
D) To increase load current

5. What is the phase relationship between the applied voltage and current in the primary of a transformer with open secondary winding?

A) Voltage leads current by 45 Degree
B) Current leads voltage by 90 Degree
C) Voltage lags current by 45 Degree
D) Current lags voltage by 90 Degree

6. How many ohms is equal to one Mega ohm?

A) 2000 kW
B) 10 kW
C) 100 kW
D) 1000 kW

7. What is the unit of inductance?

A) Watts
B) Henry
C) Joule
D) Farad

8. What is the name of effect of changing current in one coil, induces EMF in nearby coil?

A) Mutual induction
B) Coupling
C) Self induction
D) Induction

9. How power rating is specified for transformers?

A) Horse power (HP)
B) Volt ampere (VA)
C) Voltage (V)
D) Watts (W)

10. What is the effect on the transformer operated below the rated voltage?

A) Delivers reduced secondary voltage
B) Leads to interwinding leakage
C) Transformer heated up excessively
D) Burn out windings

11. What is the purpose of trimmer capacitor?

A) Filtering
B) Coupling
C) Decoupling
D) Fine tuning

12. What is the main problem caused for severe pitting in relays?

A) Excessive number of operations
B) Excessive contact current
C) Low contact current
D) Chatter during a slow release

13. Why the transformer core is made as thin laminations?

A) To maximize eddy current losses
B) To increase core saturation losses
C) To minimize eddy current losses
D) To increase the hysteresis losses

14. What type of ripple filter circuit is used for large load current requirements?

A) Capacitor Input filter
B) RC filter
C) Inductor Input filter
D) LC filter

15. Find the total resistance value of 10 ohms and 20 ohms connected in parallel.

A) 66.66 Ohms
B) 6.666 Ohms
C) 6666 Ohms
D) 666.6 Ohms

16. What is the purpose of vacuum contactors in electrical panel?

A) Packet switching
B) Slow switching

C) Fast switching
D) Medium switching

17. Which component opposes any change in current?

A) Inductor
B) Resistor
C) Diode
D) Capacitor

18. What is the result of hysteresis loss in magnetic material?

A) Energy loss takes place
B) Magnetic flux increases
C) Eddy current decreases
D) Back emf increases

19. Which factor determines the inductance value?

A) Current flow through the coil
B) Frequency of the current
C) Material of the coil
D) Diameter of the coil

20. What is the cause of burnt relay contacts?

A) Low contact current
B) Excessive number of operations
C) Excessive contact current
D) Chatter during a slow release

21. Which part of the relay causes most trouble?

A) Frame and core
B) Relay coil
C) Relay contacts
D) Hinges

22. What is the power dissipated if 10mA current flows through a 10K Ohm resistor?

A) 4000 milli watts
B) 3000 milli watts
C) 1000 milli watts
D) 2000 milli watts

23. What is the name of Multi-turn potentiometers?

A) Single turn trim pots
B) Multi turn trim pots
C) Multi turn dual pots
D) Single turn dual pots

24. Which meter is used to find the exact resistance value of resistors?

A) Ammeter
B) Watt meter
C) Volt meter
D) Ohm meter

25. Find the total inductance value of two inductors 10H and 15H of connected in series.

A) 10 H
B) 15 H
C) 05 H
D) 25 H