

Duration: 30 Mins

Total Marks: 25

ID: ITISKILL5633EH

Student Name: _____ Roll No: _____

1. Which unit is used to measure capacitance value?

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

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

2. What is the cause of burnt relay contacts?

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

10. Which component opposes any change in current?

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

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

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

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

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

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

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

12. What is the purpose of trimmer capacitor?

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

5. Which factor determines the inductance value?

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

13. How power rating is specified for transformers?

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

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

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

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

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

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

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

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

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

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

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

16. What is the unit of inductance?

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

9. Which part of the relay causes most trouble?

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

- A) Packet switching B) Medium switching
C) Slow switching D) Fast switching

18. What is the phase relationship between the applied voltage and current in the primary of a transformer with open

secondary winding?

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

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

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

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

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

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

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

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

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

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

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

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

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

25. 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