

**Duration: 30 Mins****Total Marks: 25****Q.ID: ITISKILL5633EH**

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

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

**Answer: C) 6.666 Ohms**

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

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

**Answer: D) Energy loss takes place**

3. What is the purpose of trimmer capacitor?

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

**Answer: D) Fine tuning**

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

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

**Answer: D) 25 H**

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

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

**Answer: A) Multi turn trim pots**

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

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

**Answer: B) To minimize eddy current losses**

7. Which component opposes any change in current?

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

**Answer: A) Inductor**

8. 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

**Answer: D) Delivers reduced secondary voltage**

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

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

**Answer: C) Brown, black, brown**

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

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

**Answer: D) 1000 kW**

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

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

**Answer: B) Excessive contact current**

12. How power rating is specified for transformers?

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

**Answer: A) Volt ampere (VA)**

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

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

**Answer: C) Ohm meter**

14. Which factor determines the inductance value?

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

**Answer: A) Diameter of the coil**

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

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

**Answer: D) Mutual induction**

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

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

**Answer: B) Lamp is OFF at room temperature**

17. Which unit is used to measure capacitance value?

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

**Answer: B) Farad**

18. What is the cause of burnt relay contacts?

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

**Answer: A) Excessive contact current**

19. 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 lags voltage by 90 Degree
- C) Voltage leads current by 45 Degree
- D) Current leads voltage by 90 Degree

**Answer: C) Voltage leads current by 45 Degree**

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

- A) 3000 milli watts
- B) 1000 milli watts

C) 4000 milli watts

D) 2000 milli watts

**Answer: B) 1000 milli watts**

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

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

**Answer: B) Supply power to loads**

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

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

**Answer: B) Fast switching**

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

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

**Answer: C) Capacitor Input filter**

24. Which part of the relay causes most trouble?

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

**Answer: A) Relay contacts**

25. What is the unit of inductance?

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

**Answer: B) Henry**