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**Score: 14/25 (56.00%)**

**Code: 5160**

1. How power rating is specified for transformers?

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

2. Which component opposes any change in current?

- A) Diode      B) Resistor  
**C) Inductor (Correct)**      D) Capacitor

3. What is the unit of inductance?

- A) Joule      B) Farad  
**C) Henry (Correct)**      D) Watts

4. Which factor determines the inductance value?

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

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

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

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

- A) 10 kW      B) 100 kW (Incorrect)  
**C) 1000 kW**      D) 2000 kW

7. Which unit is used to measure capacitance value?

- A) Mho      B) Ohm  
**C) Farad (Correct)**      D) Henry

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

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

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

- A) Ammeter      B) Volt meter  
**C) Ohm meter (Correct)**      D) Watt meter

10. What is the cause of burnt relay contacts?

- A) Low contact current      **B) Excessive contact current**

C) Chatter during a slow release

D) Excessive number of operations (Incorrect)

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

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

12. 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 (Correct)**

13. 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 (Incorrect)  
**C) Voltage leads current by 45 Degree**      D) Current leads voltage by 90 Degree

14. What is the purpose of trimmer capacitor?

- A) Coupling (Incorrect)      B) Filtering  
 C) Decoupling      **D) Fine tuning**

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

- A) 6.666 Ohms (Correct)**      B) 66.66 Ohms  
 C) 666.6 Ohms      D) 6666 Ohms

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

- A) 05 H      B) 10 H  
 C) 15 H      **D) 25 H (Correct)**

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

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

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

- A) Coupling
- C) Self induction

- B) Induction
- D) Mutual induction (Correct)**

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

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

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

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

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

- A) Fast switching**
- B) Slow switching
- C) Packet switching
- D) Medium switching (Incorrect)

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

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

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

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

24. Which part of the relay causes most trouble?

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

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

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