

ITI Ankola

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

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80.00% 20 / 25

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Attempt No.	#1	Completion Time	11:30 AM
Rank	#5	Total Questions	25

20 SCORE

25 MAX MARKS

20 CORRECT

5 INCORRECT

Answer Review

Q1 CORRECT How power rating is specified for transformers?

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

Q2 CORRECT Which component opposes any change in current?

- A. Diode
- B. Resistor
- C. Inductor ☒
- D. Capacitor

Q3 **CORRECT** What is the unit of inductance?

A. Joule

B. Farad

C. Henry ☒

D. Watts

Q4 **CORRECT** 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

Q5 **CORRECT** What is the colour code for 100 Ohm resistor?

A. Brown, black, red

B. Black, brown, black

C. Brown, black, brown ☒

D. Brown, brown, brown

Q6 **INCORRECT** How many ohms is equal to one Mega ohm?

A. 10 kW

B. 100 kW ☐

C. 1000 kW ☒

D. 2000 kW

Q7 **CORRECT** Which unit is used to measure capacitance value?

A. Mho

B. Ohm

C. Farad ☒

D. Henry

Q8 **CORRECT** 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

Q9 **CORRECT** Which meter is used to find the exact resistance value of resistors?

A. Ammeter

B. Volt meter

C. Ohm meter ☒

D. Watt meter

Q10 **CORRECT** 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

Q11 **INCORRECT** 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 ☒

Q12 **CORRECT** 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 ☒

Q13 **INCORRECT** 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 ☐

Q14 **CORRECT** What is the purpose of trimmer capacitor?

A. Coupling ☐

B. Filtering ☐

C. Decoupling ☐

D. Fine tuning ☒

Q15 **CORRECT** Find the total resistance value of 10 ohms and 20 ohms connected in parallel.

A. 6.666 Ohms ☒

B. 66.66 Ohms

C. 666.6 Ohms

D. 6666 Ohms

Q16 **CORRECT** 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 ☒

Q17 **CORRECT** What is the power dissipated if 10mA current flows through a 10K Ohm resistor?

A. 1000 milli watts ☒

B. 2000 milli watts

C. 3000 milli watts

D. 4000 milli watts

Q18 **CORRECT** What is the name of effect of changing current in one coil, induces EMF in nearby coil?

A. Coupling

B. Induction

C. Self induction

D. Mutual induction ☒

Q19 **CORRECT** 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
- D. Excessive number of operations

Q20 **CORRECT** 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 ☒

Q21 **CORRECT** What is the purpose of vacuum contactors in electrical panel?

- A. Fast switching ☒
- B. Slow switching
- C. Packet switching
- D. Medium switching

Q22 **CORRECT** What is the reason for the use of contactors in control circuits?

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

Q23 **INCORRECT** 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

Q24 **CORRECT** Which part of the relay causes most trouble?

A. Hinges

B. Relay coil

C. Relay contacts ☒

D. Frame and core

Q25 **INCORRECT** What type of ripple filter circuit is used for large load current requirements?

A. LC filter

B. RC filter

C. Inductor Input filter ☐

D. Capacitor Input filter ☒