

ITI Quiz - 02-Jun-2026

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Q. ID: ITISKILL4103KI

June 2026

Question Paper

Duration: 30 Mins

Total Marks: 25

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Student Name: _____ Roll No: _____

1. What is the unit of capacitance?

- A) Ampere
- B) Coulomb
- C) Volt
- D) Farad

2. What is the load resistance in an electrical circuit, if current, $I = 2$ amp and supply, $V = 10$ volt?

- A) 5 Ohms
- B) 2 Ohms
- C) 4 Ohms
- D) 3 Ohms

3. Which joint is made in either single or multi - strand conductors?

- A) Scarfed joint
- B) Rat tail joint
- C) Western union joint
- D) Britannia joint

4. Which property limits the flow of electrons in an electrical circuit?

- A) Conductance
- B) Current
- C) Resistance
- D) Voltage

5. What is the total resistance if two resistors R_1 and R_2 are connected in series?

- A) (R_1 / R_2) Ohms
- B) $(R_1 + R_2)$ Ohms
- C) $(R_1 \times R_2)$ Ohms
- D) $(R_1 - R_2)$ Ohms

6. Which winding has more inductance in refrigerator compressor motor?

- A) Start
- B) Run
- C) Start and common
- D) Common

7. What is the supply voltage if a current of 2 ampere flows through 10 Ohm resistor in a circuit?

- A) 20 Volt
- B) 55 Volt
- C) 45 Volt
- D) 65 Volt

8. Which law relates to voltage, current and resistance in an electrical circuit?

- A) Ohm's law
- B) Faraday's law
- C) Newton's law
- D) Lenz's law

9. Which type of rotor is used in split phase induction motor?

- A) Permanent magnet
- B) Squirrel cage
- C) Eccentric
- D) Wound coil

10. What is the effect of pouring water on electrodes resistance in earth pit?

- A) Increases
- B) Remains same
- C) Decreases
- D) Equalises

11. Which type of conductor is used for bus bars?

- A) Standard conductor
- B) Stranded conductor
- C) Thermal conductor
- D) Solid conductor

12. Which tool is used for skinning the insulation of cables and cleaning the wire surface?

- A) Hacksaw
- B) Combination pliers
- C) Firmer chisel
- D) Electrician's knife

13. What is the maximum capacity of 3 phase squirrel cage induction motor used with direct on line (DOL) starter?

- A) 10 HP
- B) 20 HP
- C) 5 HP
- D) 15 HP

14. What is the condition of compressor motor if Ohm meter reads infinity across common and start terminals?

- A) Running winding open
- B) Running winding shorted
- C) Starting winding shorted
- D) Starting winding open

15. Which material is used to avoid oxidation between aluminium conductor and the terminal?

- A) Kerosene
- B) Shellac
- C) Grease
- D) Petrol

16. Which winding has low resistance in resistance start induction run motor?

- A) Starting winding
- B) Auxiliary winding
- C) Common winding
- D) Running winding

17. Which is the common terminal while Ohm meter reads $AB = 10$ Ohm, $AC = 15$ Ohm and $BC = 25$ Ohm if the motor terminals are A, B and C?

- A) Terminal A
- C) Terminal C

- B) Earth Terminal
- D) Terminal B

18. What is the unit of electrical energy?

- A) Kilo watt hour
- C) Volt
- B) Watt
- D) Ampere

19. What is the unit of electric current?

- A) Farad
- C) Ampere
- B) Ohm
- D) Volt

20. How electrons flow in a battery circuit?

- A) Positive to negative polarity
- C) Phase to neutral
- B) Phase to earth
- D) Negative polarity to positive polarity

21. What is the rotor speed with respect to stator field speed in an induction motor?

- A) More than the stator speed
- B) Equal to the stator speed

- C) Less than the stator speed
- D) More than the fly wheel

22. Which type of 1-? motor has high starting torque?

- A) Induction start and induction run
- C) Resistance start induction run
- B) Capacitor start and capacitor run
- D) Permanent capacitor

23. Which meter indicates the true power directly in an electrical circuit?

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

24. Which material is used for making disc in energy meter?

- A) Copper
- C) Aluminium
- B) Zinc
- D) Brass

25. Which power supply has the fixed polarity?

- A) Signal ripples
- C) Direct current
- B) Alternating current
- D) Signal voltage