

ITI Quiz - 21-May-2026

06:02 PM

Q. ID: ITISKILL2731FJ

May 2026

Question Paper

Duration: 60 Mins

Total Marks: 56

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Student Name: _____ Roll No: _____

1. Which materials are used for semiconductor?

- A) Arsenic and antimony B) Gallium and indium
C) Silicon and germanium D) Silver and aluminium

2. How the gas and liquefied gases are classified

- A) Class A fire B) Class D fire
C) Class B fire D) Class C fire

3. What is the unit of electric charge?

- A) Coulomb B) Hertz
C) Volts D) Ampere

4. Which property of the capacitor stores electrical energy in electrostatic field?

- A) Stray capacitance B) Capacitance
C) Dielectric D) Capacitive reactance

5. Which parameter is measured by a multimeter?

- A) Time duration B) Energy
C) Frequency D) Voltage

6. Which band is used for UHF in International Telecommunication System?

- A) Band 9 B) Band 6
C) Band 11 D) Band 4

7. Which component opposes any change in current?

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

8. Which type of wave is generated in Schmitt trigger circuit?

- A) Square wave B) Sine wave
C) Triangular wave D) Saw tooth wave

9. Which fire extinguisher is used to put off class A type of fire?

- A) Dry powdered B) Jet of water
C) Carbon-di-oxide D) Foam type

10. Which fire extinguisher is used to put off class C type of fire?

- A) Foam type B) Dry powdered
C) Jet of water D) Carbon-di-oxide

11. What is the reason for electric fire?

- A) Deviation B) Open circuit
C) Proper earthing D) Overloading

12. Which electrical parameter opposes the flow of electrons?

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

13. Which material contains eight electrons in valency layer?

- A) Intrinsic semiconductors B) Insulators
C) Semiconductors D) Conductors

14. Which electrolyte is used in lead-acid battery?

- A) Zinc chloride B) Sulphuric acid
C) Alkaline solution D) Potassium hydroxide solution

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

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

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

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

17. Which tool is used for the simplest method of skinning wires?

- A) Manual wire stripper B) Electrician's knife
C) Mechanical wire stripper D) Thermal wire stripper

18. What is the purpose of covering provided over the electrical conductor?

- A) Increase current flow B) Decrease voltage rating

- C) Reduce current flow D) Protection against weather

19. Which instrument used to measure resistance, capacitance and inductance?

- A) Kelvin bridge B) LCR bridge
C) Wein bridge D) Wheatstone bridge

20. Electrical conductivity of gold is

- A) 100% B) 94%
C) 56% D) 67%

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

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

22. What is the shape of warning sign board?

- A) Triangular shape B) Hexagonal shape
C) Circular shape D) Square shape

23. How batteries are classified?

- A) Cylindrical cells and rectangular cells B) Button cells and lithium cells
C) Primary cells and secondary cells D) Dry cells and alkaline cells

24. What is the total voltage of six 1.5 V cells, connected in series?

- A) 12 VDC B) 3 VDC
C) 6 VDC D) 9 VDC

25. What is the purpose of standard wire gauge (SWG)?

- A) Measure voltage B) Measure diameter of wire
C) Measure insulation of wire D) Measure current

26. What is the use of screw driver?

- A) Tighten or loosen screws B) Tighten or loosen rivets
C) Tighten or loosen bolts D) Hold the screws

27. What is the unit of inductance?

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

28. Which value is equal to one picofarad?

- A) 10^{-6} Farad B) 1012 Farad
C) 106 Farad D) 10^{-12} Farad

29. Find the total inductance value of two inductors 10H and

15H of connected in series.

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

30. Which factor determines the inductance value?

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

31. What is the first step to rescue the person in electrical contact?

- A) Break the contact B) Pull the person from electrical contact
C) Switch OFF power supply D) Call the doctor

32. What is the shape of mandatory signs?

- A) Square B) Triangular
C) Circular D) Rectangular

33. What is the full form of the abbreviation PMMC meter?

- A) Parallel Magnet Moving Coil meter B) Principle Magnet Moving Coil meter
C) Position Magnet Moving Coil meter D) Permanent Magnet Moving Coil meter

34. What is the range of current rating of lead acid batteries used in automobiles?

- A) 10 to 25 Amp B) 5 to 10 Amp
C) 100 to 400 Amp D) 2.5 to 4.5 Amp

35. Which meter uses a moving coil for measurement?

- A) MI attraction type B) LCR meter
C) MI repulsion type D) PMMC meter

36. What is the percentage of conductivity of electric current in silver?

- A) 1 B) 0.67
C) 0.56 D) 0.94

37. Which function control in CRO, adjust the trace sharper?

- A) Focus B) Intensity
C) Amplitude (V/Div) D) Time/Div trigger

38. Which unit is used to measure capacitance value?

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

39. Which metal has very good conductivity to the electric current?

- A) Gold B) Silver

C) Copper

D) Aluminium

40. Which bearing is supporting the shaft of moving coil assembly in a PMMC instrument?

A) Gun metal bearings

B) Bush bearings

C) Jewelled bearings

D) Steel bearings

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

A) Brown, brown, brown

B) Brown, black, brown

C) Black, brown, black

D) Brown, black, red

42. Which class of fire is classified involving metals?

A) Class C

B) Class A

C) Class B

D) Class D

43. How many electrons are contained in coulomb of electric charge?

A) 6.25×10^{12} electrons

B) 6.25×10^{16} electrons

C) 6.25×10^8 electrons

D) 6.25×10^{18} electrons

44. What is the cause of injuring at the time of lifting a load?

A) Heavy load

B) Object striking the load

C) Falling object

D) Wrong lifting technique

45. Which energy is converted by the battery to produce electricity?

A) Mechanical energy into electrical energy

B) Electrical energy into mechanical energy

C) Electrical energy into light energy

D) Chemical energy into electrical energy

46. How batteries are classified based on their working?

A) Dry cells and alkaline cells

B) Primary cells and secondary cells

C) Button cells and lithium cells

D) Cylindrical cells and rectangular cells

47. Which meter movement is not affected by stray magnetic fields?

A) Thermo couple meter

B) PMMC meter

C) MI meter - Repulsion type

D) MI meter - attraction type

48. How the single strand wire is called?

A) Hook up wire

B) Flexible wire

C) Multi strand wire

D) Twisted wire

49. Which frame is used for winding the coil of PMMC meter?

A) Steel frame

B) Ceramic frame

C) Aluminium frame

D) Wooden frame

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

A) 6666 Ohms

B) 6.666 Ohms

C) 666.6 Ohms

D) 66.66 Ohms

51. Which is the maximum size of drill bit used in electrical hand drilling machine?

A) 0.35 mm

B) 6.5 mm

C) 1.5 mm

D) 3.5 mm

52. How power rating is specified for transformers?

A) Volt ampere (VA)

B) Watts (W)

C) Voltage (V)

D) Horse power (HP)

53. Which material conducts electricity?

A) Copper

B) Mica

C) Paper

D) Glass

54. Which electrode controls brightness of the image on the screen of oscilloscope?

A) Cathode

B) Anode

C) Focussing electrode

D) Control grid

55. What is the name of the pair of metal strips used in battery cell?

A) Carbon rod

B) Electrolyte

C) Electrodes

D) Cathode

56. What is the unit of electric charge?

A) Ampere

B) Hertz

C) Coulomb

D) Volts