

Dr. J. J. Magdum ITI college sambhajipur

ITI Quiz - 13-Jul-2026 09:47 AM

Q. ID: ITISKILL10543Z | July 2026

28.42% 27 / 95

Student Name	Muhammadshakir mujawar	Access Code	6378
Attempt No.	#1	Completion Time	02:09 PM
Rank	#1	Total Questions	95

27 SCORE

95 MAX MARKS

27 CORRECT

68 INCORRECT

Answer Review

Q1 CORRECT Which machine converts mechanical energy into electrical energy?

A. Battery

B. Generator ☒

C. Heater

D. Iron box

Q2 CORRECT Which is the unit of current?

A. Ampere ☒

B. Volt

C. Ohm

D. Watt

Q3 **INCORRECT** Which is the unit of resistance?

A. Ampere

B. Volt

C. Ohm ☒

D. Watt ☐

Q4 **CORRECT** What is the flow of electrons in any conductor?

A. Voltage

B. Current ☒

C. Resistance

D. Power

Q5 **INCORRECT** Which property of a substance is opposing the flow of electric current?

A. Current ☐

B. Voltage

C. Resistance ☒

D. EMF

Q6 **INCORRECT** Which is very good conductor?

A. Copper ☒

B. Cast iron

C. Wrought iron ☐

D. Steel

Q7 **CORRECT** Which is mineral insulator

A. Glass

B. Quartz

C. Mica ☒

D. Porcelain

Q8 **CORRECT** What is the total resistance if three resistances of 3 ohms, 9 ohms and 5 ohms are connected in series?

A. 11 ohms

B. 7 ohm

C. 17 ohms ☒

D. 1/17 ohms

Q9 **CORRECT** What is the total resistance if two resistances of 4 ohms and 6 ohms are connected in parallel?

A. 10

B. 2.4 ☒

C. 5

D. 4

Q10 **CORRECT** Which is same in series connection of resistors in a circuit?

A. Current ☒

B. Voltage

C. Resistance

D. Power

Q11 **CORRECT** Which law states that at constant temperature the current passing through a closed circuit is directly proportional to the potential difference and inversely proportional to the resistance?

A. Ohm's law ☒

B. Lenz's law

C. Newton's law

D. Hooke's law

Q12 **CORRECT** What is the resistance?

$I = 11.5$ Amps

$V = 380$ Volts

$R = \underline{\hspace{1cm}}$ Ohms

A. 13 ohms

B. 23 ohms

C. 33 ohms ☒

D. 43 ohms

Q13 **INCORRECT** What is the current?

$R = 50$ Ohms

220 Volts

$I = \underline{\hspace{1cm}}$ Amps

A. 4.1 Amps

B. 4.2 Amps

C. 4.3 Amps ☐

D. 4.4 Amps ☒

Q14 **INCORRECT** What is the voltage?

$R = 250 \text{ Ohms}$

$I = 0.44 \text{ Amps}$

$V = \text{ ______ } \text{ Volts}$

A. 100 Volts

B. 105 Volts ☐

C. 108 Volts

D. 110 Volts ☐

Q15 **INCORRECT** Which statement is correct according to ohm's law?

A. $I = 1/V$ ☐

B. $I = R$

C. $I = V/R$ ☐

D. $I = R/V$

Q16 **INCORRECT** What is the filament resistance if a 6 volt bulb draws a current of 0.5 Amps?

A. 12 W ☐

B. 10 W

C. 3 W

D. 1.2 W ☐

Q17 **INCORRECT** How much watt second in 1 watt hour?

A. 1000 watt sec

B. 2000 watt sec

C. 3600 watt sec ☐

D. 4000 watt sec ☐

Q18 **INCORRECT** What is the power if an emf of one volt causes a current flow of 1ampere?

A. 1 watt ☐

B. 1 kilowatt

C. 1 HP

D. 1 Kilowatt hour ☐

Q19 **INCORRECT** Which is equal to electric power?

A. $R^2 I$ watts

B. $I^2 R$ watts ☐

C. RI

D. IR ☐

Q20 **INCORRECT** How much power does it consumes if an electric heater draws a current of 10 amps at 200 volts?

A. 2000 watts ☐

B. 2010 watts

C. 2020 watts

D. 2030 watts ☐

Q21 **CORRECT** What is the resistance of an electric iron if the rating of electric iron is 220 V and 500 watts?

A. 94.8 ohms

B. 95.8 ohms

C. 96.8 ohms ☐

D. 97.8 ohms

Q22 **INCORRECT** What is the voltage of the immersion heater?

$P = 500$ watts

$I = 2.27$ Amps

$V = \text{ ______}$ Volts

A. 200.3 volts

B. 210.3 volts ☐

C. 220.3 volts ☒

D. 230.3 volts

Q23 **INCORRECT** What is the unit of intensity of magnetic field?

A. wb/m ☒

B. m/wb

C. Hertz ☐

D. Coloumb

Q24 **CORRECT** Which law states about electromagnetic induction?

A. Ohm's law

B. Hooke's law

C. Lenz's law

D. Faraday's law ☒

Q25 **INCORRECT** What is the formula for induced emf?

A. $B^2 L \sin \theta$ volts

B. $BL \sin \theta$ volts

C. $BLV \sin \theta$ ☒

D. $B^2 L V \sin \theta$ ☐

Q26 **INCORRECT** What does EMF stands for?

A. Electronic Magnetic Force

B. Electro Motive Force ☒

C. Electro Magnetic Force

D. Electromated Force ☐

Q27 **INCORRECT** Which is the example for statically induced emf?

A. Generator

B. Motor

C. Transformer ☒

D. Refrigerator ☐

Q28 **INCORRECT** Which is the example for dynamicallly induced Emf?

A. Motor

B. Generator ☒

C. Car ☐

D. Motor bike

Q29 **CORRECT** Which is the unit electrical power?

A. Volts

B. Ohms

C. Watts ☒

D. Ampere

Q30 **INCORRECT** What is the current Flow in the bulb?

$P = 550 \text{ watts}$

$R = 22 \text{ Ohms}$

$I = \text{ ______ } \text{ Amps}$

A. 2 Amps

B. 3 Amps ☐

C. 4 Amps

D. 5 Amps ☐

Q31 **CORRECT** What is the power required?

$I = 0.455 \text{ Amps}$

$R = 484 \text{ Ohms}$

$P = \text{ ______ } \text{ Watts}$

A. 98.2 watts

B. 99.2 watts

C. 100.2 watts ☐

D. 101.2 watts

Q32 **INCORRECT** What is the rated power if an adjustable resistor bears the following label 1.5 k ohms/ 0.08A?

A. 9.2 watts

B. 9.4 watts ☐

C. 9.6 watts ☐

D. 9.8 watts

Q33 **INCORRECT** How much voltage will be required to illuminate a 40 watts fluorescent lamp draws a current of 0.10 amperes?

A. 390 volts

B. 395 volts ☐

C. 400 volts ☐

D. 405 volts

Q34 **INCORRECT** How many hours will take for a 100 watts bulb to consume 1 kwh energy?

W = 1 Kwh

P = 100 Watts

t = ____Hours

A. 10 hours ☐

B. 12 hours

C. 18 hours ☐

D. 24 hours

Q35 **INCORRECT** What is termed as the quantity of matter contained in a body?

A. Density ☐

B. Volume

C. Mass ☐

D. Specific gravity

Q36 **INCORRECT** What is the force with which a body is attracted by the earth towards its centre?

A. Mass ☐

B. Weight ☐

C. Volume

D. Density

Q37 **CORRECT** What is called mass per unit volume of a substances?

A. Mass

B. Weight

C. Density ☒

D. Volume

Q38 **CORRECT** What is called the ratio between the density of a substances density of water at 4 Degree Centigrade?

A. Density

B. Specific gravity ☒

C. Mass

D. Weight

Q39 **INCORRECT** What is the density of aluminium?

A. 2.7 g/cm^3 ☒

B. 3.7 g/cm^3

C. 4.7 g/cm^3

D. 5.7 g/cm^3 ☐

Q40 **INCORRECT** Wha is the mass if the density of a body is 7.6 g/cm^3 and its volume is 25 cm^3 ?

A. 190 grams ☒

B. 200 grams

C. 210 grams

D. 220 grams ☐

Q41 **INCORRECT** What is the specific gravity of the solid, if density of the solid is 19.5 g/cm^3 ?

A. 8

B. 18.5 ☐

C. 19

D. 19.5 ☐

Q42 **CORRECT** What is the density (ρ) in g/cm^3 of an iron cube, if it weighs (W) 4.8 kg and volume (V) is 640 cm^3 ?

A. 6.6 g/cm^3

B. 6.9 g/cm^3

C. 7.2 g/cm^3

D. 7.5 g/cm^3 ☐

Q43 **INCORRECT** What is the volume (V) of mercury in cm^3 , if mass (m) of mercury is 1 kg and density (ρ) is 13.6 g/cm^3 ?

A. 73.53 cm^3 ☐

B. 73.43 cm^3 ☐

C. 73.33 cm^3

D. 73.23 cm^3

Q44 **INCORRECT** What is the mass in gram, if a force of 15 dynes acting on a mass m producing an acceleration of 2.5 cm/sec^2 ?

A. 9 grams

B. 8 grams ☐

C. 7 grams

D. 6 grams ☐

Q45 **CORRECT** What is the specific gravity of the metal, if the piece of metal weighs 150 grams in air and 125 grams in water?

A. 6 ☐

B. 10 ☐

C. 15 ☐

D. 25 ☐

Q46 **INCORRECT** What is the volume of mercury in cm^3 , if the mass (m) of mercury is 136 grams (g) and density (r) of mercury is 13.6 g/cm^3 ?

A. 136 cm^3 ☐

B. 13.6 cm^3 ☐

C. 10.6 cm^3 ☐

D. 10.0 cm^3 ☐

Q47 **INCORRECT** What is the block weighs (W) in kg, if volume (V) is 320 cm^3 and density 8.9 g/cm^3 ?

A. 2.948 kg ☐

B. 2.848 kg ☐

C. 2.648 kg ☐

D. 2.448 ☐

Q48 **CORRECT** What is the specific gravity of the metal, if the weighs 6.5 kgf in air and 3.5 kgf in water?

A. 6.166 ☐

B. 3.166 ☐

C. 2.166 ☐

D. 1.166 ☐

Q49 **INCORRECT** What is the weight force of a car has a mass of 800 kg?(Take $g = 9.81\text{m/sec}$)

A. 7848 Newton ☐

B. 7748 Newton ☐

C. 7847 Newton

D. 7487 Newton

Q50 **INCORRECT** Which one is non-metal?

A. Mercury

B. Graphite ☐

C. Brass ☐

D. Iron

Q51 **INCORRECT** Which metal contains iron as a major content?

A. Brass metal

B. Bronze metal ☐

C. Zinc

D. Ferrous metal ☐

Q52 **INCORRECT** What is the name of the metal which do not contain iron?

A. Ferrous metals

B. Non-ferrous metals ☐

C. Insulating metals ☐

D. Non-Insulating metals

Q53 **INCORRECT** Which one of the following properties is the mechanical properties of metal?

A. Fusibility ☐

B. Ductility ☐

C. Corrosion

D. Structure

Q54 **INCORRECT** Which is brittle metal?

A. Cast iron ☐

B. Steel

C. Mild steel

D. Alloy steel ☐

Q55 **INCORRECT** Which mechanical property of a metal offers resistance to elastic deformation in a cutting tool?

A. Ductility ☐

B. Malleability

C. Hardness ☐

D. Toughness

Q56 **CORRECT** Which property of material enables to formation of permanent deformation without fracture?

A. Elasticity

B. Plasticity ☐

C. Ductility

D. Brittleness

Q57 **CORRECT** Which property of metal has its power of returning to its original shape after the applied force is released?

A. Malleability

B. Tenacity

C. Elasticity ☒

D. Plasticity

Q58 **INCORRECT** Which property of a metal possessed by it melts when heat is applied?

A. Conductivity ☐

B. Malleability

C. Fusibility ☒

D. Tenacity

Q59 **INCORRECT** Which alloy used in electric lamp as filament?

A. Cobalt

B. Vanadium ☐

C. Tungsten ☒

D. Silicon

Q60 **INCORRECT** What metals contained in brass alloy?

A. Copper and aluminium

B. Copper and lead ☐

C. Copper and zinc ☒

D. Copper and tin

Q61 **INCORRECT** Which cast iron cannot be welded?

A. Grey cast iron

B. White cast iron ☐

C. Malleable cast iron ☐

D. Nodular cast iron

Q62 **INCORRECT** Which metal cannot be forged?

A. Alloy steel

B. Mild steel

C. Steel ☐

D. Cast iron ☐

Q63 **INCORRECT** Which metal is widely used for making casting of machinery parts?

A. Grey cast iron ☐

B. White cast iron ☐

C. Malleable cast iron

D. Wrought iron

Q64 **INCORRECT** Which furnace is used to get pig iron from iron ore?

A. Mild steel - Rever battery

B. Electric furnace

C. Blast furnace ☐

D. Cupola ☐

Q65 **INCORRECT** What is the name of furnace to obtained cast iron?

A. Cupola ☐

B. Mild steel - Blast furnace

C. Steel - Rever battery ☐

D. Alloy metal - Electric furnace

Q66 **INCORRECT** What is the other name of low carbon steel?

A. Low alloy steel

B. High alloy steel ☐

C. High speed steel

D. Mild steel ☐

Q67 **INCORRECT** What is the carbon percentage in medium carbon steel?

A. 0.05% to 0.15%

B. 0.15% to 0.25%

C. 0.25% to 0.5% ☐

D. 0.5% to 1.5% ☐

Q68 **INCORRECT** What is the carbon percentage in low carbon steel?

A. 0.02% to 0.03%

B. 0.15% to 0.25% ☐

C. 0.25% to 0.50%

D. 0.50% to 1.50% ☐

Q69 **INCORRECT** What is the carbon percentage in high carbon steel?

A. 0.02% to 0.03% ☐

B. 0.15% to 0.25%

C. 0.25% to 0.50%

D. 0.50% to 1.50% ☐

Q70 **INCORRECT** What is the ore of aluminium?

A. Hematite ☐

B. Mallatite

C. Bauxite ☐

D. Lemonite

Q71 **CORRECT** Which property of a metal enables it by which it can be drawn out into wires under tension without rupture?

A. Ductility ☐

B. Malleability

C. Hardness

D. Brittleness

Q72 **INCORRECT** Which among the following is an insulator?

A. Copper

B. Aluminium

C. Silver ☐

D. Mica ☐

Q73 **CORRECT** Which rubber is used as insulator for power cables and control wires?

A. Butyl

B. Hypalone

C. Silicon ☒

D. Nitrite butadiene

Q74 **INCORRECT** Which alloy steel is used to make permanent magnets?

A. Silicon steel

B. Manganese steel ☐

C. Vanadium steel

D. Cobalt steel ☒

Q75 **INCORRECT** Which insulator is used in over head lines?

A. Mica

B. Rubber

C. P.V.C ☐

D. Porcelain ☒

Q76 **INCORRECT** Which insulating material is used for making switches?

A. Porcelain

B. PVC

C. Bakelite ☒

D. Ebonite ☐

Q77 **INCORRECT** What is the name of the property of an insulation that should brake down or puncture on application of high voltage?

A. Di-electric strength ☐

B. Specific resistance

C. Mechanical strenth ☐

D. Non absorption

Q78 **INCORRECT** Which alloy steel is using for making precious instrument?

A. Silicon steel ☐

B. Manganese steel

C. Invar steel ☐

D. Vanadium

Q79 **INCORRECT** Which steel is used for making files and cold chisel?

A. Low carbon steel

B. Midium carbon steel ☐

C. High carbon steel ☐

D. Stainless steel

Q80 **INCORRECT** What is the area of a square whose side is 18 cm?

A. 26 cm^2 ☐

B. 36 cm^2

C. 72 cm^2

D. 324 cm^2 ☐

Q81 **INCORRECT** What is the diagonal of a square plate whose side is 28 cm?

A. 39.29 cm

B. 39.39 cm ☐

C. 39.49 cm

D. 39.59 cm ☐

Q82 **INCORRECT** Convert 0.456 decimal fraction into percentage?

A. 0.456

B. 0.0456 ☐

C. 45.6 ☐

D. 0.000456

Q83 **CORRECT** What is the x value for $x^2 + 62 = 126$?

A. 4

B. 6

C. 8 ☐

D. 10

Q84 **CORRECT** What is the square root of decimal number 550.37?

A. 21.26

B. 22.26

C. 22.46

D. 23.46 ☐

Q85 **INCORRECT** What is the length L2, if total length (L) is 2.75 metre and $L1:L2 = 2:3$?

A. 1.1 metre

B. 1.25 metre

C. 1.65 metre ☐

D. 1.75 metre ☐

Q86 **INCORRECT** How many days a mechanic takes to assemble 64 machines if he assembles 8 machines in 3 days?

A. 20 days ☐

B. 22 days

C. 24 days ☐

D. 26 days

Q87 **INCORRECT** What will be the rpm of smaller gear if a 180 mm dia meshes with 60 mm dia gear and the bigger gear makes 60 rpm?

A. 120 rpm ☐

B. 140 rpm

C. 160 rpm

D. 180 rpm ☐

Q88 **INCORRECT** What is the percentage of copper if the casting weight of copper 42.3 kg and tin weight 2.7 kg?

A. Cu 92% ☐

B. Cu 94% ☐

C. Cu 96%

D. Cu 98%

Q89 **CORRECT** A motor cycle tyre is sold for Rs 300/- what is the purchase price if 25% profit is added to it.

A. Rs 200

B. Rs 220

C. Rs 240 ☒

D. Rs 260

Q90 **INCORRECT** What is the decimal fraction of conversion of 18.5%?

A. 0.185 ☒

B. 0.175

C. 0.165

D. 0.195 ☐

Q91 **INCORRECT** What are the two classifications of system of units?

A. British and Metric ☐

B. Gravitational and non-gravitational

C. Fundamental and derived ☒

D. Metric and International

Q92 **CORRECT** What are fundamental units?

A. Length, Mass, Volume

B. Length, Mass, Time ☒

C. Length, Mass, Area

D. Length, Pressure, Volume

Q93 **INCORRECT** What denotes letter M in MKS system?

A. Mile

B. Meter ☒

C. Millimeter ☐

D. Micron

Q94 **CORRECT** How many millimetres are there in 1 inch?

A. 2.54 mm

B. 25.4 mm ☒

C. 24.5 mm

D. 2.45 mm

Q95 **INCORRECT** What is the LCM of 12, 18, 6, 36?

A. 12

B. 18 ☐

C. 36 ☒

D. 42