

Trinity ITI College

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74.00% 148 / 200

Student Name	MAfaz ali	Access Code	2419
Attempt No.	#1	Completion Time	02:11 PM
Rank	#4	Total Questions	200

148 SCORE

200 MAX MARKS

148 CORRECT

52 INCORRECT

Answer Review

Q1 CORRECT Which instrument is used to measure atmospheric pressure?

A. Hygrometer

B. Hydrometer

C. Manometer

D. Barometer

Q2 INCORRECT What is the boiling point of pure water in centigrade scale?

A. 212 Degree Centigrade

B. 100 Degree Centigrade

C. 32 Degree Centigrade

D. 0 Degree Centigrade

Q3 **INCORRECT** What is the barometer reading at sea level in Hg column?

A. 760 mm

B. 750 mm

C. 740 mm

D. 730 mm

Q4 **INCORRECT** Which instrument is used for measuring heat?

A. Thermometer

B. Anemometer

C. Calorimeter

D. Ammeter

Q5 **CORRECT** Which refrigeration system works on directly by the heat energy?

A. Jet refrigeration

B. Mechanical refrigeration

C. Vapour absorption refrigeration

D. Vapour compression refrigeration

Q6 **CORRECT** What is the absolute zero temperature in degree centigrade?

A. 0 Degree Centigrade

B. 100 Degree Centigrade

C. -273 Degree Centigrade

D. 212 Degree Centigrade

Q7 **CORRECT** What is the energy of a body by virtue of its position?

- A. Wind energy
- B. Kinetic energy
- C. Potential energy
- D. Electrical energy

Q8 **CORRECT** What is the physical state of ammonia at condenser inlet in vapour absorption system?

- A. Solid
- B. Liquid
- C. Vapour
- D. Semi solid

Q9 **CORRECT** Which law is related to the constant PV at constant T?

- A. Boyles law
- B. Charles s law
- C. Pascal s law
- D. Renaults law

Q10 **INCORRECT** Which thermodynamic process the temperature is kept constant?

- A. Isobaric process
- B. Isothermal process
- C. Constant volume process
- D. Constant pressure process

Q11 **CORRECT** What is the equivalent absolute scale for centigrade?

A. Kelvin

B. Celsius

C. Rankine

D. Fahrenheit

Q12 **CORRECT** Which method is used to connect the swaged joint in copper tubes?

A. TIG welding

B. Silver brazing

C. Lead soldering

D. Fusion welding

Q13 **CORRECT** Which components maintain the pressure difference in RAC system?

A. Condenser and filter

B. Evaporator and motor

C. Receiver and condenser

D. Compressor and expansion device

Q14 **CORRECT** What is the advantage of using flux in brazing?

A. Over heating

B. Melting tubes

C. Prevent Oxidation

D. Chemical reaction

Q15 **CORRECT** What is the absolute pressure of gas in a cylinder, if gauge reads 135.3 p.s.i.?

A. 130 p.s.i.a

B. 140 p.s.i.a

C. 150 p.s.i.a

D. 160 p.s.i.a

Q16 **CORRECT** Which components are connected by metering device in vapour compression cycle?

A. Condenser and evaporator

B. Compressor and condenser

C. Evaporator and suction line

D. Compressor and evaporator

Q17 **CORRECT** Which condition is maintained for refrigerant in high side of vapour compression system?

A. Above its critical temperature

B. Below its critical temperature

C. Above its freezing temperature

D. Below its freezing temperature

Q18 **CORRECT** Which factors produce work?

A. Force and distance

B. Time and distance

C. Force and power

D. Force and time

Q19 **CORRECT** What is the purpose of accumulator in a refrigerator?

- A. Improves oil circulation
- B. Prevents surging of refrigerant
- C. Avoids hunting of refrigerant
- D. Prevents liquid flood back to compressor

Q20 **CORRECT** What is effect of compression process on refrigerant vapour?

- A. Heat the vapour below saturation
- B. Cool the vapour above saturation
- C. Increase the pressure and temperature
- D. Decrease the pressure and temperature

Q21 **CORRECT** Which part connects the piston with small end of connecting rod in a reciprocating compressor?

- A. Piston pin
- B. Piston bolt
- C. Piston rings
- D. Piston sleeve

Q22 **CORRECT** Which winding is made of thin wire in single phase motor?

- A. Main
- B. Series
- C. Starting
- D. Running

Q23 **CORRECT** Which instrument is used to identify the terminals of a compressor motor?

A. Ammeter

B. Voltmeter

C. Ohm meter

D. Anemometer

Q24 **CORRECT** Which motor has the least starting torque?

A. CSIR

B. CSR

C. RSIR

D. PSC

Q25 **CORRECT** Which motor has the least starting torque?

A. CSIR

B. CSR

C. RSIR

D. PSC

Q26 **CORRECT** Which type of compressor is used for domestic refrigerator?

A. Semi sealed compressor

B. Centrifugal compressor

C. Hermetic compressor

D. Open type compressor

Q27 **CORRECT** What is the revolving part of induction motor?

A. Stator

B. Rotor

C. Relay

D. Winding

Q28 **CORRECT** Which valve is closed during compression stroke in reciprocating compressor?

A. Service valve

B. Liquid line valve

C. Discharge valve

D. Suction valve

Q29 **CORRECT** Which gas is used for pressure testing the compressor dome?

A. Air

B. Oxygen

C. Nitrogen

D. Refrigerant

Q30 **CORRECT** What is the method of starting a 3 phase slip ring induction motor?

A. With starting relay

B. Using starting capacitor

C. With running capacitor

D. Adding resistance to rotor winding

Q31 **CORRECT** Which is used to connect the rotor bars in 3phase squirrel cage induction motor?

A. Screw

B. Welded

C. End ring

D. Nut and bolt

Q32 **CORRECT** What is the use of a starting capacitor in single phase induction motor?

A. Improve power factor

B. Increase starting torque

C. Decrease starting torque

D. Dis connect starting winding

Q33 **CORRECT** What is the advantage of a hermetically sealed compressor in refrigerator?

A. Silent operation

B. Easily serviceable

C. Noise is more

D. Cost is high

Q34 **CORRECT** Which movement of the scroll compresses the low pressure vapour in scroll compressor?

A. Reciprocating

B. Centrifugal

C. Rotating

D. Orbital

Q35 **CORRECT** How to change the direction of rotation in 3 Phase induction motor?

- A. Change neutral
- B. Change all phase
- C. Change any two phase
- D. Change the winding only

Q36 **INCORRECT** How the difference between the synchronous speed and the actual rotor speed is specified?

- A. Lead
- B. Lag
- C. Slip
- D. Trip

Q37 **CORRECT** What is the use of capacitor in PSC operated induction motor?

- A. Decrease the starting torque
- B. Cancel the starting torque
- C. Improve the power factor
- D. Decrease the power factor

Q38 **CORRECT** What is the use of suction baffle in a scroll compressor?

- A. Reduce noise of compressor
- B. Increase noise of compressor
- C. Reduce capacity of compressor
- D. Allow liquid to enter into compressor

Q39 **CORRECT** What is the reason for poor compression?

- A. Less clearance volume
- B. Scratches on the piston surface
- C. Lapped valve plate and reed seat
- D. Good lubrication on the moving parts

Q40 **INCORRECT** What is the effect of moist air present inside the hermetic system?

- A. Capacity of compressor will increase
- B. Less wear and tear in compressor
- C. Harmful to the compressor and motor
- D. Increase the life of compressor

Q41 **CORRECT** What is the unit of electric current?

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

Q42 **CORRECT** What is the unit of capacitance?

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

Q43 **CORRECT** Which tool is used for skinning the insulation of cables and cleaning the wire surface?

A. Hacksaw

B. Firmer chisel

C. Electrician's knife

D. Combination pliers

Q44 **CORRECT** Which power supply has the fixed polarity?

A. Direct current

B. Signal voltage

C. Signal ripples

D. Alternating current

Q45 **INCORRECT** What is the unit of electrical energy?

A. Volt

B. Watt

C. Ampere

D. Kilo watt hour

Q46 **INCORRECT** How electrons flow in a battery circuit?

A. Phase to earth

B. Phase to neutral

C. Positive to negative polarity

D. Negative polarity to positive polarity

Q47 **CORRECT** Which material is used for making disc in energy meter?

A. Aluminium

B. Copper

C. Brass

D. Zinc

Q48 **INCORRECT** Which property limits the flow of electrons in an electrical circuit?

A. Voltage

B. Current

C. Resistance

D. Conductance

Q49 **CORRECT** Which joint is made in either single or multi - strand conductors?

A. Rat tail joint

B. Scarfed joint

C. Britannia joint

D. Western union joint

Q50 **CORRECT** Which type of 1-? motor has high starting torque?

A. Permanent capacitor

B. Resistance start induction run

C. Capacitor start and capacitor run

D. Induction start and induction run

Q51 **INCORRECT** Which winding has more inductance in refrigerator compressor motor?

A. Run

B. Start

C. Common

D. Start and common

Q52 **CORRECT** Which meter indicates the true power directly in an electrical circuit?

A. Ammeter

B. Ohm meter

C. Watt meter

D. Volt meter

Q53 **CORRECT** What is the supply voltage if a current of 2 ampere flows through 10 Ohm resistor in a circuit?

A. 20 Volt

B. 45 Volt

C. 55 Volt

D. 65 Volt

Q54 **CORRECT** Which law relates to voltage, current and resistance in an electrical circuit?

A. Ohm s law

B. Lenz s law

C. Newton s law

D. Faraday s law

Q55 **CORRECT** What is the rotor speed with respect to stator field speed in an induction motor?

A. Less than the stator speed

B. More than the stator speed

C. Equal to the stator speed

D. More than the fly wheel

Q56 **CORRECT** What is the load resistance in an electrical circuit, if current, $I = 2$ amp and supply, $V = 10$ volt?

A. 2 Ohms

B. 3 Ohms

C. 4 Ohms

D. 5 Ohms

Q57 **INCORRECT** What is the condition of compressor motor if Ohm meter reads infinity across common and start terminals?

A. Running winding open

B. Starting winding open

C. Starting winding shorted

D. Running winding shorted

Q58 **CORRECT** What is the effect of pouring water on electrodes resistance in earth pit?

A. Decreases

B. Increases

C. Equalises

D. Remains same

Q59 **CORRECT** What is the total resistance if two resistors R1 and R2 are connected in series?

A. $(R1 - R2)$ Ohms

B. $(R1 + R2)$ Ohms

C. $(R1 \times R2)$ Ohms

D. $(R1 / R2)$ Ohms

Q60 **INCORRECT** 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

B. Terminal B

C. Terminal C

D. Earth Terminal

Q61 **CORRECT** What are the passive components used in electronic circuits?

A. Resistors, capacitors and inductors

B. Transformers and semiconductors

C. Semi conductors and transistors

D. Transistors, diodes and SCRs

Q62 **CORRECT** What is the unit of inductance?

A. Ohm

B. Henry

C. Farad

D. Ampere

Q63 **CORRECT** How many diodes are required for making a bridge rectifier circuit?

A. One

B. Two

C. Four

D. Three

Q64 **INCORRECT** Which material is used for making ICs?

A. Silicon

B. Carbon

C. Platinum

D. Mild steel

Q65 **INCORRECT** What is the name of electronic circuit?

A. Bridge rectifier

B. Half wave rectifier

C. Full wave rectifier

D. Quarter wave rectifier

Q66 **INCORRECT** What is the unit of capacitance used with single phase induction motors in domestic RAC system?

A. Kilo ohm

B. Microfarad

C. Milli henry

D. Milli ampere

Q67 **CORRECT** Which semiconductor material is used to make diodes?

A. Steel

B. Silicon

C. Copper

D. Aluminium

Q68 **CORRECT** Which type of diode is used for communication circuits?

A. Signal diode

B. Zener diode

C. Rectifier diode

D. Switching diode

Q69 **CORRECT** Which component is used as a switching device in electronic circuit?

A. SCR

B. Diode

C. Capacitor

D. Zener diode

Q70 **INCORRECT** What is the name of active component used in electronic circuit?

A. Transistor

B. TRIAC

C. DIAC

D. SCR

Q71 **CORRECT** What are the active components used in electronic circuits?

A. Transformers and inductors

B. Transistors, diodes and SCRs

C. Semi conductors and transformers

D. Resistors, capacitors and inductors

Q72 **CORRECT** Which device maintains a constant DC output?

A. Load regulators

B. Rectifier circuits

C. Current limiters

D. Voltage regulators

Q73 **CORRECT** Which electronic component is the voltage regulator?

A. Zener diode

B. Transistor

C. Triac

D. Diac

Q74 **CORRECT** What is the reverse break down voltage range of zener diode?

A. 0.1 to 0.5 volt

B. 0.5 to 1 volt

C. 3 to 18 volt

D. 1 to 3 volt

Q75 **CORRECT** Which material is used for making zener diode?

A. Lead

B. Silicon

C. Titanium

D. Platinum

Q76 **CORRECT** How many terminals are there in a Silicon Controlled Rectifier (SCR)?

A. One

B. Two

C. Four

D. Three

Q77 **CORRECT** What is the method of converting AC to DC power supply with two diodes and a step down transformer?

A. Bridge rectifier

B. Full wave rectifier

C. Half wave rectifier

D. Medium wave rectifier

Q78 **CORRECT** Which application uses the digital ICs?

A. Amplifier

B. Logic gates

C. Tuned circuits

D. Voltage regulator

Q79 **CORRECT** What is the process involved for converting AC to DC power supply?

- A. Inversion
- B. Regulation
- C. Convection
- D. Rectification

Q80 **INCORRECT** How the maximum reverse voltage across the diode is termed in reverse biased condition?

- A. Diode voltage
- B. Ripple frequency
- C. Peak inverse voltage
- D. Peak rectification voltage

Q81 **INCORRECT** Which extinguishes the fire of flammable liquids?

- A. Water
- B. Air
- C. CO₂
- D. Oil

Q82 **CORRECT** What is the material composition of a Tin man s solder?

- A. 50% Tin 50% Zinc
- B. 50% Tin 50% lead
- C. 50% Zinc 50% lead
- D. 50% Tin 50% Bronze

Q83 **CORRECT** Which metal is alloyed with zinc to make brass?

A. Iron

B. Copper

C. Bronze

D. Aluminium

Q84 **CORRECT** Which materials are used to make mallets?

A. Wood, cast iron

B. Wood, rubber

C. Rubber, brass

D. Wood, brass

Q85 **CORRECT** Which is the point angle of a twist drill used for zinc alloy?

A. 90 Degree

B. 100 Degree

C. 118 Degree

D. 125 Degree

Q86 **INCORRECT** Which extinguishes the fire on electrical equipment?

A. Oil

B. Foam

C. Water

D. Halon

Q87 **CORRECT** Which tool is used for bending, seaming and forming of sheet metal?

A. Bench vice

B. Hand vice

C. Stakes

D. Shear

Q88 **INCORRECT** What is the equivalent of one micron in millimeter?

A. 0.0001 mm

B. 0.001 mm

C. 0.01 mm

D. 0.1 mm

Q89 **INCORRECT** Which tool is used for bending long sheet metal?

A. Folding bar

B. Bench vice

C. Hand vice

D. Shear

Q90 **CORRECT** What is the angle of the tip of centre punch?

A. 30 Degree

B. 60 Degree

C. 90 Degree

D. 120 Degree

Q91 **INCORRECT** Which file is used for filing wood?

A. Double cut file

B. Single cut file

C. Rasp cut file

D. Smooth file

Q92 **CORRECT** Which tool is used for tightening the odd size bolts and nuts?

A. Socket set

B. Nose pliers

C. Ring spanner

D. Adjustable spanner

Q93 **INCORRECT** Which medium is used to extinguish Class - A fire?

A. CO₂

B. Foam

C. Water

D. Dry powder

Q94 **CORRECT** Which material is used to clean oil and grease on the floor?

A. Cotton waste

B. Saw dust

C. Water

D. Air

Q95 **INCORRECT** Which tool is used for trimming the edges of a sheet metal cylinder?

A. Straight snips

B. Bent snips

C. Tube cutter

D. Scissors

Q96 **CORRECT** What is smothering in fire extinguishing?

A. Pouring of CTC

B. Flashing with dry powder

C. Use water to lower temperature

D. Cutting off oxygen supply to fire

Q97 **CORRECT** Which instrument is used to measure pressure on both high and low side of the system?

A. Pipe manifold

B. Gauge manifold

C. Pressure manifold

D. Instrument manifold

Q98 **CORRECT** What is the name of the caliper having one leg with an adjustable divider point and other leg is bent?

A. Jenny Caliper

B. Inside Caliper

C. Outside caliper

D. Spring joint caliper

Q99 **CORRECT** What is the least count of a metric micrometer?

A. 0.1 mm

B. 0.01 mm

C. 0.001 mm

D. 0.0001 mm

Q100 **CORRECT** What is starving in extinguishing the fire?

A. Adding fuel

B. Removal of fuel

C. Clearing the hazards

D. Stop the supply of oxygen

Q101 **CORRECT** Which property is desirable for an ideal refrigerant?

A. High boiling point

B. High freezing point

C. High specific volume

D. High latent heat value

Q102 **CORRECT** What is the category of R 290 refrigerant?

A. Halocarbons

B. Azeotropes

C. Hydrocarbons

D. Organic compounds

Q103 **CORRECT** What type of heat is absorbed by primary refrigerant?

A. Total heat

B. Latent heat

C. Specific heat

D. Sensible heat

Q104 **INCORRECT** Which is the green house gas?

A. Oxygen of atmospheric air

B. Chlorofluoro carbon in air

C. Helium of atmospheric air

D. Neon of atmospheric air

Q105 **CORRECT** Which gas is universally taken as the basic reference for GWP?

A. SO₂

B. CO₂

C. NH₃

D. AIR

Q106 **INCORRECT** What is the cylinder colour code of R 22 refrigerant?

A. White

B. Green

C. Orchid

D. Orange

Q107 **CORRECT** Where does the ozone layer exist in atmosphere?

- A. Mesosphere
- B. Stratosphere
- C. Ionosphere
- D. Exosphere

Q108 **CORRECT** Which is the inorganic refrigerant?

- A. R 170
- B. R 500
- C. R 630
- D. R 717

Q109 **CORRECT** How the refrigerants are classified based on heat absorption by latent and sensible heat?

- A. Primary and secondary
- B. Organic and inorganic
- C. Zeotropic and azeotropic
- D. Halocarbons and hydrocarbons

Q110 **INCORRECT** Which is the numerical designation of ammonia refrigerant?

- A. $700 + (\text{Molecular mass of NH}_3) = 717$
- B. $700 + (\text{Molecular mass of NH}_3) = 718$
- C. $700 + (\text{Molecular mass of NH}_3) = 719$
- D. $700 + (\text{Molecular mass of NH}_3) = 720$

Q111 **CORRECT** What does the number 4 of R 134a indicate?

- A. Number of hydrogen atoms
- B. Number of chlorine atoms
- C. Number of carbon atoms
- D. Number of fluorine atoms

Q112 **CORRECT** Which substance absorbs heat and directly changes its state from solid to vapour?

- A. Ice
- B. Dry ice
- C. Primary refrigerants
- D. Secondary refrigerants

Q113 **CORRECT** Which is the effective method for refrigerant recovery?

- A. Condensing unit
- B. Charge migration
- C. Push pull recovery
- D. Use of system's compressor

Q114 **INCORRECT** How many hydrogen atoms are present in R 134a?

- A. One
- B. Two
- C. Four
- D. Three

Q115 **INCORRECT** Which refrigerant is used in vapour compression cycle?

A. Secondary refrigerant

B. Primary refrigerant

C. Brine solution

D. Water

Q116 **INCORRECT** How to prevent the small pieces of glass wool affecting the eyes?

A. Wearing goggles

B. Wearing gloves

C. Using mask

D. Using shoes

Q117 **CORRECT** What is the name of process that changes the used refrigerant to new product?

A. Recover

B. Recycle

C. Reclaim

D. Manufacture

Q118 **CORRECT** Which type of insulating material is used for making ice box to cool beverages?

A. Tar felt

B. Glass wool

C. Fibre glass

D. Thermocole

Q119 **INCORRECT** Why universal numbering system is adopted for different refrigerants?

A. Identifying the refrigerant's names

B. Mixing the lubricant combination

C. Fixing the drier combination

D. Identify the systems

Q120 **INCORRECT** What is the effect of releasing HFC refrigerants to the atmosphere?

A. Increase global warming potential

B. Increase ozone depleting potential

C. Decrease green house effect

D. Improve water pollution

Q121 **CORRECT** Which refrigerant property is desirable for V.C system?

A. Low boiling point

B. Corrosive to metals

C. Low latent heat valve

D. Low Dielectric strength

Q122 **INCORRECT** Which type of compressor is used as a vacuum pump?

A. Reciprocating

B. Centrifugal

C. Rotary

D. Scroll

Q123 **CORRECT** Which refrigerant blend is highly flammable?

A. HCFC

B. HFC

C. CFC

D. HC

Q124 **CORRECT** Which part of the refrigerator cools the liquid refrigerant in capillary tube?

A. Discharge line

B. Suction line

C. Condenser

D. Evaporator

Q125 **CORRECT** Which type of motor drive is used in hermetic compressor in refrigerator?

A. Belt drive

B. Gear drive

C. Direct drive

D. Push drive

Q126 **CORRECT** What is the minimum distance to be maintained between the wall and refrigerator condenser?

A. 13 cm

B. 15 cm

C. 18 cm

D. 22 cm

Q127 **CORRECT** Which material is used to make the evaporator of refrigerator?

A. Galvanised iron

B. Stainless steel

C. Aluminium

D. Brass

Q128 **CORRECT** Which two tubes act as heat exchanger in a refrigerator?

A. Suction and charging tube

B. Discharge and suction tube

C. Capillary and suction tube

D. Discharge and capillary tube

Q129 **CORRECT** What is the name of heat carrying medium in vapour compression system?

A. Air

B. Water

C. Liquid

D. Refrigerant

Q130 **INCORRECT** Which refrigerant is highly flammable?

A. HC - Hydro carbon

B. HFC - Hydro fluoro carbon

C. CFC - Chloro fluoro carbon

D. HCFC - Hydro chloro fluoro carbon

Q131 **CORRECT** Which component absorbs the maximum heat from the cabinet materials in frost free refrigerator?

A. Condenser

B. Evaporator

C. Compressor

D. Expansion valve

Q132 **INCORRECT** What is the function of refrigerant fluid in a refrigerator?

A. Releases heat inside the cabinet

B. Absorbs heat from inside the cabinet

C. Absorbs heat from outside the cabinet

D. Absorbs heat from bottom side cabinet

Q133 **CORRECT** What is the resistance level of start winding in a refrigerator's compressor motor?

A. Medium resistance

B. High resistance

C. Zero resistance

D. Low resistance

Q134 **CORRECT** Which refrigerant is used in domestic refrigerator?

A. R 22

B. R 32

C. R 134 a

D. R 407 c

Q135 **CORRECT** Which method is used to check the leakage of hydro fluoro carbon refrigerants?

- A. Electric torch
- B. Litmus paper
- C. Sulphur candles
- D. Electronic leak detector

Q136 **INCORRECT** Which gas is used for pressurising and testing leakage of RAC system?

- A. O₂
- B. N₂
- C. O₃
- D. SO₂

Q137 **INCORRECT** What is ensured before removing a leaky evaporator in a refrigerator?

- A. Recharge refrigerant to the system
- B. Check the drain tray of evaporator
- C. Removal of the thermostat sensor
- D. Pressurize the system with refrigerant

Q138 **INCORRECT** What is the fault in compressor motor if there is electrical continuity between the dome and motor terminal?

- A. Shorted run winding
- B. Open common terminal
- C. Shorted start winding
- D. Grounded compressor motor

Q139 **CORRECT** How does the evaporator frost affect the sub zero temperature thermally in refrigerator?

A. As conductor

B. As insulator

C. As convector

D. As radiator

Q140 **CORRECT** What is the reason for filter drier sweating in refrigerator?

A. Nitrogen in the system

B. Moisture in the system

C. Oxygen in the system

D. Oil in the system

Q141 **CORRECT** What is the tool used for holding hot metals?

A. Tongs

B. Spanner

C. Pipe vice

D. Bench vice

Q142 **CORRECT** What is the safety device used during arc welding?

A. Screw clamp

B. Hand screen

C. Electrode holder

D. Lugs for welding

Q143 **INCORRECT** What is the percentage range of silver in copper to copper pipes brazing rod?

A. 20 to 35%

B. 35 to 45%

C. 45 to 60%

D. 60 to 100%

Q144 **CORRECT** What is the colour of acetylene hose pipe in oxy - acetylene welding set?

A. Maroon

B. Green

C. Black

D. Red

Q145 **INCORRECT** What is the colour of oxygen hose pipe in oxy - acetylene welding set?

A. Maroon

B. Green

C. Black

D. Red

Q146 **CORRECT** What is the ampere setting for 3.5 mm diameter electrode in welding?

A. 50 Ampere

B. 60 Ampere

C. 100 Ampere

D. 110 Ampere

Q147 **INCORRECT** Which group the acetylene gas belongs?

A. HC

B. HFC

C. CFC

D. HCFC

Q148 **CORRECT** Which is the welding method if the filler rod only is fused?

A. Non fusion

B. Pressure

C. Fusion

D. Forge

Q149 **CORRECT** Which flame is used for welding brass?

A. Wide flame

B. Neutral flame

C. Oxidising flame

D. Carburising flame

Q150 **CORRECT** Which valve is closed first while extinguishing flame in gas welding process?

A. Acetylene

B. Hydrogen

C. Oxygen

D. Air

Q151 **INCORRECT** What is applied to find the leakage on acetylene gas connection?

A. Soap bubbles

B. Halide torch

C. LPG torch

D. By smell

Q152 **CORRECT** Which component secures the hose with regulator union in gas welding set?

A. Steel wire

B. Hose clamp

C. Fibre clip

D. Iron chain

Q153 **CORRECT** How the cylinders of gas welding set are secured in trolley?

A. By cable

B. Using chain

C. Tightened with rope

D. Tied up with belt

Q154 **CORRECT** What is done after gas charging and pinching the process tube in refrigerator?

A. Flaring

B. Charging

C. Swaging

D. Brazing

Q155 **INCORRECT** Which method of welding process is suitable to nonferrous dissimilar metals?

- A. Cold welding
- B. Explosion welding
- C. Brazing and bronze welding
- D. Ultrasonic method of welding

Q156 **INCORRECT** What is the name of joint between pieces located at right angle to each other?

- A. T - Joint
- B. Lap joint
- C. Butt joint
- D. Grooved joint

Q157 **CORRECT** What is the fault if excess deposit of tiny metal globules formed on the job surface along weld?

- A. Incomplete penetration
- B. Slag inclusion
- C. Blow hole
- D. Spatters

Q158 **CORRECT** Why the acetylene gas is avoided with copper pipe lines or fittings in oxy-acetylene welding set?

- A. Copper is expensive
- B. Copper is not flexible hose
- C. Copper and acetylene form explosive
- D. Copper pipe consumes more acetylene

Q159 **CORRECT** Why the filler metal does not melt and flow into the joint in bronze welding of copper?

- A. Excess use of flux
- B. Due to excess of polished surface
- C. Surface coated with oxides or oily material
- D. Excessive heating of metal s surface

Q160 **CORRECT** What is the weld test without destroying or breaking the joint?

- A. Destructive test
- B. Non destructive test
- C. Radio graphic test
- D. Magnetic test

Q161 **CORRECT** Which type of compressor is used in window air conditioner?

- A. Belt drive
- B. Open type
- C. Sealed type
- D. Swash plate

Q162 **CORRECT** Which type of condenser is used in window air conditioner?

- A. Fins and tube
- B. Plate and tube
- C. Plate and coil
- D. Bare tube

Q163 **CORRECT** What is the cooling capacity of 1 TR in K Cal / hr?

A. 3000

B. 4000

C. 5000

D. 6000

Q164 **CORRECT** Which type of expansion valve is used in window air conditioner?

A. Capillary tube

B. Low side float valve

C. Automatic expansion valve

D. Thermostatic expansion valve

Q165 **INCORRECT** Which type of evaporator is used in window air conditioner?

A. Bare tube

B. Plate and tube

C. Fins and plate

D. Fins and tube

Q166 **CORRECT** Which material is used for making fins of condenser in a window air conditioner?

A. Brass

B. Copper

C. Cast iron

D. Aluminium

Q167 **CORRECT** What is the cooling capacity of 0.5 TR in BTU / hr?

A. 6000

B. 12000

C. 18000

D. 24000

Q168 **INCORRECT** 1 Which control device is used to maintain the room air temperature?

A. OLP

B. Relay

C. Thermostat

D. Selector switch

Q169 **CORRECT** Which relay is used in capacitor start, capacitor run (CSR) compressor motor?

A. Voltage relay

B. Current relay

C. Thermal relay

D. Amperage relay

Q170 **CORRECT** Which safety device is used for compressor motor in window air conditioner?

A. Relay

B. Starting capacitor

C. Running capacitor

D. Over load protector

Q171 **CORRECT** Which part of window AC removes dust particles from the room air?

A. Strainer

B. Air filter

C. Filter drier

D. Dehydrator

Q172 **CORRECT** Which capacity of fan motor is used in 1Ton window air conditioner?

A. 1/5 HP

B. 1/10 HP

C. 1/16 HP

D. 1/20 HP

Q173 **CORRECT** Which capacitor is connected in series with starting winding of CSR motor during operation?

A. Fan capacitor

B. Run capacitor

C. Start capacitor

D. No capacitor is connected

Q174 **INCORRECT** What is the value of running capacitor used for 1.5 TR window air conditioner?

A. 36 MFD

B. 40 MFD

C. 80 MFD

D. 100 MFD

Q175 **CORRECT** What is the value of starting capacitor used for 1TR window air conditioner?

A. 40 MFD

B. 60 MFD

C. 80 MFD

D. 100 MFD

Q176 **CORRECT** What is the purpose of relay used in window air conditioner?

A. Disconnect the starting capacitor

B. Disconnect the running capacitor

C. Disconnect the fan capacitor

D. Disconnect the winding

Q177 **CORRECT** Which is increased by the fins of condenser tubes in window air conditioner?

A. Heat transfer rate

B. Power consumption

C. Discharge pressure

D. Refrigerant flow rate

Q178 **CORRECT** What is the purpose of operating the fan motor first and then the compressor motor in Air conditioners?

A. Cool the coils first by fan

B. Cool the compressor by fan

C. Minimise the noise of motors

D. Stop the high starting current by both motors

Q179 **CORRECT** Which type of fan motor is used in window air conditioner?

- A. Three phase single shaft motor
- B. Single phase single shaft motor
- C. Three phase double end shaft motor
- D. Single phase double end shaft motor

Q180 **CORRECT** Which winding of compressor motor is directly connected across voltage relay coil?

- A. Main winding
- B. Starting winding
- C. Running winding
- D. Auxiliary winding

Q181 **CORRECT** Where the normally closed contacts are internally connected in voltage relay?

- A. Across 1 and 5
- B. Across 2 and 5
- C. Across 1 and 2
- D. Across 2 and 4

Q182 **CORRECT** Which is indicated by the arrow mark on filter drier component?

- A. Flow direction of air
- B. Position of capillary tube
- C. Flow direction of refrigerant
- D. Arrangement of desiccant and filter

Q183 **CORRECT** What is the area of room cooled by 1ton window air conditioner?

A. 5000 sq.ft

B. 2000 sq.ft

C. 1000 sq.ft

D. 3000 sq.ft

Q184 **INCORRECT** What is the capacity of compressor motor used in 1Ton window air conditioner?

A. 0.50 HP

B. 0.75 HP

C. 0.95 HP

D. 1.00 HP

Q185 **CORRECT** Which device is used to exhaust the room air in window AC?

A. Damper

B. Air filter

C. Filter drier

D. Air washer

Q186 **CORRECT** Where the filter drier is installed in window AC refrigerant circuit?

A. Discharge line

B. Suction line

C. Service line

D. Liquid line

Q187 **CORRECT** Which winding has high inductance value in CSR compressor motor?

A. Common winding

B. Running winding

C. Starting winding

D. Auxiliary winding

Q188 **CORRECT** Where the relay coil is internally connected in voltage relay?

A. Across 1 and 2

B. Across 5 and 1

C. Across 5 and 2

D. Across 2 and 4

Q189 **INCORRECT** What is the value of starting capacitor used for 1.5TR capacity window air conditioner?

A. 40 to 60 MFD

B. 80 to 100 MFD

C. 130 to 150 MFD

D. 150 to 160 MFD

Q190 **CORRECT** Which stabilizer capacity is used for 1 Ton window air conditioner?

A. 2 KVA

B. 3 KVA

C. 4 KVA

D. 5 KVA

Q191 **INCORRECT** What is the reason for Compressor does not start ?

A. Defective fresh air damper

B. Defective oscillation motor

C. Defective fan motor

D. Defective OLP

Q192 **CORRECT** How to neutralise the concentration of leaked ammonia from air

A. Recover ammonia from air

B. Spraying a lot of water

C. Shut down the plant

D. Spray Hydrochloric acid

Q193 **CORRECT** What is the reason for excessive frost on evaporator coil in window AC?

A. Evaporator fins not blocked by dust

B. Blower rotating at higher speed

C. Air filter blocked completely

D. More air circulation in evaporator

Q194 **INCORRECT** What is the reason for Very high condenser temperature in a window air conditioner?

A. Water splashes condenser

B. More air flows into the condenser

C. Fan motor working in good condition

D. Dust accumulated in the condenser fins

Q195 **CORRECT** What is the reason for the compressor motor burn out in a window air conditioner?

A. Defective fan capacitor

B. Defective fan motor

C. Defective blower

D. Defective OLP

Q196 **INCORRECT** What is the remedy for the defective OLP in a window air conditioner?

A. Repair the OLP

B. Replace the OLP

C. Remove the parts

D. Repair the heater element

Q197 **CORRECT** What is the reason for the compressor does not start but the fan motor works normally in window AC?

A. Defective blower

B. Defective fan motor

C. Defective fan capacitor

D. Defective compressor motor

Q198 **CORRECT** What is the remedy to remove moisture from the window AC system?

A. Over gas charge in the system

B. Evacuate the system deeply

C. Clean the evaporator fins

D. Clean the condenser fins

Q199 **CORRECT** What is the cause of reduced supply air throw though air filter is clean in window AC?

A. No frost in the evaporator

B. Frost accumulated in the evaporator

C. Dust accumulated in the condenser

D. No dust accumulated in the evaporator

Q200 **CORRECT** What is the effect of sensing higher temperature by thermistor NTC?

A. Resistance increases

B. Resistance decreases

C. Resistance becomes zero

D. Resistance becomes infinity