Trinity ITI College

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52.50% 105 / 200

Student Name	Prathish	Access Code	9968
Attempt No.	#1	Completion Time	02:01 PM
Rank	#9	Total Questions	200

105 SCORE	**200** MAX MARKS	**105** CORRECT	**95** INCORRECT

Answer Review

Q1 CORRECT Which instrument is used to measure atmospheric pressure?

A. Hygrometer

B. Hydrometer

C. Manometer

D. Barometer □

Q2 CORRECT 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 CORRECT 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 CORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT Which factors produce work?

A. Force and distance

B. Time and distance

C. Force and power

D. Force and time

Q19 INCORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT 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 CORRECT 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 INCORRECT 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 INCORRECT 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 CORRECT 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 x 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 INCORRECT 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 CORRECT Which material is used for making ICs?

A. Silicon ✓

B. Carbon

C. Platinum

D. Mild steel

Q65 CORRECT What is the name of electronic circuit?

A. Bridge rectifier ✓

B. Half wave rectifier

C. Full wave rectifier

D. Quarter wave rectifier

Q66 CORRECT 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 INCORRECT Which semiconductor material is used to make diodes?

A. Steel

B. Silicon

C. Copper

D. Aluminium

Q68 INCORRECT Which type of diode is used for communication circuits?

A. Signal diode

B. Zener diode

C. Rectifier diode

D. Switching diode

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

A. SCR

B. Diode

C. Capacitor

D. Zener diode

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

A. Transistor

B. TRIAC

C. DIAC

D. SCR

Q71 INCORRECT 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 INCORRECT Which device maintains a constant DC output?

A. Load regulators

B. Rectifier circuits

C. Current limiters

D. Voltage regulators

Q73 INCORRECT Which electronic component is the voltage regulator?

A. Zener diode

B. Transistor

C. Triac

D. Diac

Q74 INCORRECT 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 INCORRECT 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 INCORRECT Which application uses the digital ICs?

A. Amplifier

B. Logic gates ☐

C. Tuned circuits ☐

D. Voltage regulator

Q79 INCORRECT 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 CORRECT Which extinguishes the fire of flammable liquids?

A. Water

B. Air

C. CO₂ □

D. Oil

Q82 INCORRECT 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 INCORRECT 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 INCORRECT Which tool is used for bending, seaming and forming of sheet metal?

A. Bench vice

B. Hand vice ☐

C. Stakes ☐

D. Shear

Q88 CORRECT 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 CORRECT Which file is used for filing wood?

A. Double cut file

B. Single cut file

C. Rasp cut file

D. Smooth file

Q92 INCORRECT 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 CORRECT 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 CORRECT 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 INCORRECT 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. 000.1 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 INCORRECT Which property is desirable for an ideal refrigerant?

A. High boiling point

B. High freezing point

C. High specify volume

D. High latent heat value

Q102 INCORRECT What is the category of R 290 refrigerant?

A. Halocarbons

B. Azeotropes

C. Hydrocarbons

D. Organic compounds

Q103 INCORRECT 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 CORRECT 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 INCORRECT Which is the inorganic refrigerant?

A. R 170

B. R 500

C. R 630 ✗

D. R 717 ✓

Q109 INCORRECT 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 + (Molecular mass of NH3) = 717 ✓

B. 700 + (Molecular mass of NH3) = 718 ✗

C. 700 + (Molecular mass of NH3) = 719

D. 700 + (Molecular mass of NH 3) = 720

Q111 INCORRECT 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 CORRECT 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 INCORRECT 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 CORRECT 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 CORRECT 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 CORRECT Which type of compressor is used as a vacuum pump?

A. Reciprocating

B. Centrifugal

C. Rotary □

D. Scroll

Q123 INCORRECT Which refrigerant blend is highly flammable?

A. HCFC

B. HFC

C. CFC □

D. HC □

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

A. Discharge line

B. Suction line □

C. Condenser □

D. Evaporator

Q125 INCORRECT 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 INCORRECT 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 INCORRECT Which material is used to make the evaporator of refrigerator?

A. Galvanised iron □

B. Stainless steel

C. Aluminium □

D. Brass

Q128 INCORRECT 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 CORRECT 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 INCORRECT 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 CORRECT 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 INCORRECT What is the tool used for holding hot metals?

A. Tongs

B. Spanner

C. Pipe vice

D. Bench vice

Q142 INCORRECT 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 INCORRECT What is the colour of acetylene hose pipe in oxy - acetylene welding set?

A. Maroon ☐

B. Green

C. Black

D. Red ☐

Q145 CORRECT 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 CORRECT 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 INCORRECT 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 CORRECT What is applied to find the leakage on acetylene gas connection?

A. Soap bubbles

B. Halide torch

C. LPG torch

D. By smell

Q152 INCORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT 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 CORRECT 1 Which control device is used to maintain the room air temperature?

A. OLP

B. Relay

C. Thermostat □

D. Selector switch

Q169 INCORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT Which winding has high inductance value in CSR compressor motor?

A. Common winding

B. Running winding

C. Starting winding

D. Auxiliary winding

Q188 INCORRECT 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 CORRECT 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 INCORRECT Which stabilizer capacity is used for 1 Ton window air conditioner?

A. 2 KVA

B. 3 KVA

C. 4 KVA

D. 5 KVA

Q191 CORRECT 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 INCORRECT 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 INCORRECT 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 CORRECT 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 INCORRECT 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 INCORRECT 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 INCORRECT 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