

Trinity ITI

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Attempt No.	#1	Completion Time	03:56 PM
Rank	#1	Total Questions	100

41 SCORE

100 MAX MARKS

41 CORRECT

59 INCORRECT

Answer Review

Q1 **CORRECT** What is the unit of heat in M.K.S system?

A. B.T.U (British thermal unit)

B. K.Cal (Kilo Calorie)

C. KV (Kilo Volt)

D. K.W (Kilo Watt)

Q2 **CORRECT** How the level of heat in a substance is expressed?

A. Micron

B. Pressure

C. Humidity

D. Temperature

Q3 **INCORRECT** Which thermodynamic process the temperature is kept constant?

A. Isobaric process

B. Isothermal process

C. Constant volume process

D. Constant pressure process

Q4 **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

Q5 **CORRECT** What is the advantage of using flux in brazing?

A. Over heating

B. Melting tubes

C. Prevent Oxidation

D. Chemical reaction

Q6 **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

Q7 **INCORRECT** Which device controls the moisture in AC room air?

A. Humidistat

B. Hydrometer

C. Hygrometer

D. Anemometer

Q8 **CORRECT** Which part of a central AC system cannot be repaired after pump down operation?

A. Condenser

B. Evaporator

C. Liquid receiver

D. Expansion device

Q9 **CORRECT** What is the preventive maintenance of cooling tower sump?

A. Remove sludge

B. Flush with water

C. Add HCL to water

D. Add bleaching powder

Q10 **CORRECT** Why the glass wool insulation is avoided in ducts?

A. Less strength

B. High conductivity

C. Not resistant to water

D. Allows vapour transmission

Q11 **INCORRECT** What is the pH level of water used for final rinsing of condenser tubes after descaling?

A. 4 to 4.5

B. 7 to 7.5

C. 10 to 12

D. 9 to 10.5

Q12 **INCORRECT** What is the advantage of electrically interlocked circuit for motors and pumps in a chiller plant?

A. Start the loads non sequentially

B. Start the loads when not needed

C. Stop the loads when not required

D. Start and stop the loads sequentially

Q13 **INCORRECT** What is the effect if the refrigeration system is started before chilled water pump?

A. No cooling

B. Water warms in chillier

C. Water freezes in chillier

D. Excess of heat transfer

Q14 **INCORRECT** What is the remedy for no lubrication even if the sight glass shows proper oil level?

A. Replace oil pump

B. Add oil to crankcase

C. Replace oil pressure gauge

D. Replace oil pressure cut out

Q15 **CORRECT** Which causes the filter drier to become cold in chiller AC plant?

- A. Over charge
- B. Under charge
- C. High condensing pressure
- D. Partial blocking of filter drier

Q16 **INCORRECT** What is the cause of high condensing pressure in water cooled condenser?

- A. Lack of lubrication
- B. Damage condenser fan
- C. Low load on evaporator
- D. Defective cooling water pump

Q17 **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

Q18 **INCORRECT** Which is a positive displacement compressor?

- A. Centrifugal compressor
- B. Scroll compressor
- C. Water pump
- D. Oil pump

Q19 **INCORRECT** What is the revolving part of induction motor?

A. Stator

B. Rotor

C. Relay

D. Winding

Q20 **INCORRECT** Which cooling medium is used to cool the motor of a hermetic reciprocating compressor in AC?

A. Discharge vapour

B. Liquid refrigerant

C. Suction vapour

D. Water

Q21 **INCORRECT** What is the formula to find out the synchronous speed of induction motor?

A. $N_s = (150P/f)$

B. $N_s = (120f/P)$

C. $N_s = (150f/P)$

D. $N_s = (120P/f)$

Q22 **CORRECT** How the difference between the synchronous speed and the actual rotor speed is specified?

A. Lead

B. Lag

C. Slip

D. Trip

Q23 **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

Q24 **INCORRECT** What is the reason for swash plate compressor failure in car AC?

A. Oil level is low

B. Oil level is medium

C. Thermostat not working

D. Refrigerant charge normal

Q25 **INCORRECT** Why the top of dome is hot in a scroll compressor?

A. Discharge plenum is at top

B. Suction super heat is less

C. Suction gas not cooled

D. Undercharged system

Q26 **CORRECT** Which type of expansion device is used in frost free refrigerator?

A. Float valve

B. Capillary tube

C. Automatic expansion valve

D. Thermostatic expansion valve

Q27 **INCORRECT** Which type of evaporator is used in house hold refrigerator?

A. Plate evaporator

B. Tube in tube evaporator

C. Shell and coil evaporator

D. Shell and tube evaporator

Q28 **INCORRECT** Which type of drier filter is suitable for HFC refrigerants?

A. Molecular sieve type

B. Activated alumina

C. Activated carbon

D. Silica gel

Q29 **INCORRECT** What is the advantage of using capillary tube as an expansion device?

A. Temperature balancing is easy

B. Pressure balancing is easy

C. Volume balancing is easy

D. Complicate design

Q30 **CORRECT** Where the dehydrator is installed in a refrigeration system?

A. Discharge line

B. Capillary line

C. Suction line

D. Liquid line

Q31 **CORRECT** Which device meters the amount of refrigerant entering the evaporator in window AC?

- A. Accumulator
- B. Capillary tube
- C. Heat exchanger
- D. Finned tube condenser

Q32 **CORRECT** Which gas is used for flushing blocked capillary tube?

- A. Moist air
- B. Hydrogen
- C. Dry nitrogen
- D. Aqua ammonia

Q33 **INCORRECT** Which component is connected in series with bimetal thermo in a frost free refrigerator?

- A. Blower
- B. Door switch
- C. Cabinet bulb
- D. Defrost heater

Q34 **CORRECT** Which gas is used to flush out the coils of air cooled condenser?

- A. Dry nitrogen
- B. Pure dry air
- C. Oxygen
- D. kaksr

Q35 **INCORRECT** How pressure drop is achieved in capillary tube of refrigeration cycle?

A. The friction between refrigerant and tube

B. The friction between refrigerant and oil

C. The friction between piston and cylinder

D. The friction between belt and pulley

Q36 **INCORRECT** Which type of defrosting method is used in frost free refrigerator?

A. Hot water defrosting

B. Manual defrosting

C. Hot gas defrosting

D. Electric defrosting

Q37 **CORRECT** Which set of components are used in FCU?

A. Air filter, blower, condenser

B. Compressor, fan, condenser

C. Air filter, cooling coil, blower motor

D. Cooling coil, condenser, fan motor

Q38 **INCORRECT** Which is circulated in VRV system for cooling cycle?

A. Water

B. Cooled air

C. Cooled brine

D. Liquid refrigerant

Q39 **INCORRECT** Why the temperatures of inlet and outlet water in shell and tube condenser are recorded in log sheet?

A. Study about the plant

B. Judge quality of water

C. Checking the hardness of water

D. Fix descaling time for condenser

Q40 **CORRECT** Which parameter of power supply reduces the starting current in VFD motor?

A. Decreased power factor

B. Increased supply voltage

C. Lower frequency operation

D. Decreased resistance mode

Q41 **INCORRECT** Which version of motors are used in ductless multisplit system?

A. Bioptional drive

B. Trioptional drive

C. Variable frequency drive

D. Constant frequency drive

Q42 **INCORRECT** Which valve is used to release the non condensable gases from AC plant?

A. Purge valve

B. Check valve

C. Service valve

D. Solenoid valve

Q43 **INCORRECT** What is the effect on system performance if the AC system is at undercharged condition?

A. Poor cooling

B. Excess cooling

C. Compressor over loading

D. Compressor trips by HP cut out

Q44 **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

Q45 **CORRECT** Which winding has more inductance in refrigerator compressor motor?

A. Run

B. Start

C. Common

D. Start and common

Q46 **INCORRECT** What is the equivalent of one microfarad in farad?

A. 10^{-3} farad

B. 10^{-6} farad

C. 10^{-9} farad

D. 10^{-12} farad

Q47 **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

Q48 **CORRECT** Which application uses the digital ICs?

A. Amplifier

B. Logic gates

C. Tuned circuits

D. Voltage regulator

Q49 **INCORRECT** Which extinguishes the fire on electrical equipment?

A. Oil

B. Foam

C. Water

D. Halon

Q50 **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

Q51 **INCORRECT** Which medium is used to extinguish Class - A fire?

A. CO₂

B. Foam

C. Water

D. Dry powder

Q52 **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

Q53 **INCORRECT** Which sheet is used to check the tightness of door gasket of a refrigerator?

A. Rubber

B. Plastic

C. Copper

D. Zinc

Q54 **CORRECT** Where the manually defrosted water is stored in refrigerator?

A. Tray on top of the compressor

B. Bottom of the evaporator

C. Bottom of the condenser

D. Top of the freezer

Q55 **CORRECT** Which type of evaporator is used in frost free refrigerator?

- A. Plate type
- B. Wire mesh
- C. Finned tube
- D. Shell and tube

Q56 **INCORRECT** Which is connected in series with start capacitor in motor circuit?

- A. Starting winding
- B. Common terminal
- C. Running Terminal
- D. Running winding

Q57 **INCORRECT** Which instrument measures the humidity of air?

- A. Barometer
- B. Manometer
- C. Hygrometer
- D. Hydrometer

Q58 **INCORRECT** What is the wet bulb temperature of air if dry bulb temperature is 35 Degree Centigrade and wet bulb depression is 4 Degree Centigrade?

- A. 30 Degree Centigrade
- B. 31 Degree Centigrade
- C. 32 Degree Centigrade
- D. 33 Degree Centigrade

Q59 **CORRECT** How many parameters are needed to locate all properties of moist air in psychrometric chart?

A. One

B. Two

C. Four

D. Three

Q60 **INCORRECT** What is the velocity pressure of air in a duct if the total pressure and static pressure are known?

A. Sum of static and total pressures

B. Sum of dynamic and total pressures

C. Difference in static and total pressures

D. Difference in dynamic and total pressures

Q61 **INCORRECT** How the space between the false ceiling and the building main ceiling is used in handling of air in central AC plant?

A. Exhaust duct

B. Fresh air duct

C. Return air duct

D. Supply air duct

Q62 **INCORRECT** What is the equivalent of 1 mm of Hg in terms of microns?

A. 500

B. 1000

C. 1500

D. 2000

Q63 **CORRECT** Which type of fan blade is used with indoor unit?

A. Guide vane

B. Blower

C. Axial

D. Vane

Q64 **CORRECT** Which fan motor speed is used with outdoor unit in split AC?

A. Single speed

B. Double speed

C. Triple speed

D. Five speed

Q65 **CORRECT** What is the function of starting capacitor in CSIR motor?

A. Gives initial torque

B. Gives running torque

C. Corrects power factor

D. Improves energy efficiency

Q66 **INCORRECT** What is the advantage of periodical cleaning of air filter?

A. Decrease the volume of air handling

B. Increase the speed of fan motor

C. Decrease the cooling capacity

D. Increase the cooling capacity

Q67 **CORRECT** Which is the mounting location of evaporator in ductable split unit?

A. Floor mounting

B. Wall mounting

C. Ceiling mounting

D. Roof mounting

Q68 **INCORRECT** What is the cause for noisy fan motor in outdoor unit of split AC?

A. Bearing worn out

B. Motor Burnt

C. Shaft struck

D. Blade bent

Q69 **INCORRECT** What is the cooling capacity for 1.5 Ton of ductable split air conditioner?

A. 3500 Kcal/hr

B. 4000 Kcal/hr

C. 4500 Kcal/hr

D. 5000 Kcal/hr

Q70 **INCORRECT** What is the diameter of liquid line used with 5 TR if the suction line is 7/8 OD by up flow?

A. 1/2? OD

B. 5/16 ? OD

C. 3/8 ? OD

D. 3/4 ?OD

Q71 **CORRECT** What is the advantage of ductable air conditioner over window air conditioner?

- A. Higher cost
- B. Noisy operation
- C. Silent operation
- D. Needs more space

Q72 **CORRECT** What is the use of anemometer?

- A. Check water flow
- B. Measure air flow
- C. Produce current
- D. Measure voltage

Q73 **INCORRECT** What is the effect of longer suction and liquid piping in AC?

- A. No pressure rise
- B. More pressure drop
- C. Less pressure drop
- D. Medium pressure rise

Q74 **INCORRECT** How much cut out point is set in high pressure control in package AC using R-22?

- A. 12 kg/cm²
- B. 15 kg/cm²
- C. 17 kg/cm²
- D. 20 kg/cm²

Q75 **INCORRECT** What is the periodical checking for blower belt in package AC?

A. Daily

B. Yearly

C. Weekly

D. Monthly

Q76 **INCORRECT** Which is scheduled for yearly maintenance in package AC?

A. Wash the air filter

B. Tighten the blower belt

C. Clean the cooling tower

D. Tighten the pump gland nut

Q77 **INCORRECT** Which type of processor control is used for safety in package air conditioner?

A. Electric

B. Mechanic

C. Electronic

D. Pneumatic

Q78 **INCORRECT** Which safety control is actuated by excess of heat /current in package AC?

A. Selector switch

B. Over load relay

C. Water flow switch

D. High pressure cut-out

Q79 **INCORRECT** What is the position of knob selected in thermostat to check its working condition in package AC?

A. Fan only

B. Low cool

C. High cool

D. Medium cool

Q80 **CORRECT** What is the remedy for scaled up water tubes of water cooled condenser?

A. Clean the surface

B. Wipe the condenser fins

C. Descale the condenser tubes

D. Wash the condenser with soap water

Q81 **INCORRECT** What is the category of R 290 refrigerant?

A. Halocarbons

B. Azeotropes

C. Hydrocarbons

D. Organic compounds

Q82 **INCORRECT** What is the ozone depleting potential of R 134a Refrigerant?

B. 1

C. 2

D. 3

Q83 **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

Q84 **CORRECT** What is the advantage of universal colour coding of refrigerant cylinders?

A. Easy to identify

B. Make good appearance

C. Prevent corrosion on cylinder

D. Provide extra strength to cylinder

Q85 **CORRECT** Which refrigerant blend is highly flammable?

A. HCFC

B. HFC

C. CFC

D. HC

Q86 **INCORRECT** Which part of the refrigerator cools the liquid refrigerant in capillary tube?

A. Discharge line

B. Suction line

C. Condenser

D. Evaporator

Q87 **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

Q88 **INCORRECT** Which gas is used for pressurising and testing leakage of RAC system?

A. O_2

B. N_2

C. O_3

D. SO_2

Q89 **CORRECT** Which component belongs to indoor unit of split AC?

A. Compressor

B. Condenser

C. Evaporator

D. Drier

Q90 **INCORRECT** Which fan is used in condensing unit of ductable split air conditioner?

A. Forward curved fan

B. Centrifugal fan

C. Propeller fan

D. Radial fan

Q91 **INCORRECT** Which horizontal distance is preferred between indoor and outdoor units in ductable split AC installation?

A. 15 meters

B. 12 meters

C. 20 meters

D. 25 meters

Q92 **INCORRECT** What is the function of starting capacitor in CSIR motor?

A. Gives initial torque

B. Gives running torque

C. Corrects power factor

D. Improves energy efficiency

Q93 **CORRECT** Which is the mounting location of evaporator in ductable split unit?

A. Floor mounting

B. Wall mounting

C. Ceiling mounting

D. Roof mounting

Q94 **CORRECT** What is the effect on defective thermostat sensor in split AC?

A. Unit consumes less power

B. Increases super heat

C. AC unit runs continuously

D. Relay malfunctions

Q95 **INCORRECT** What is the colour of acetylene hose pipe in oxy - acetylene welding set?

A. Maroon

B. Green

C. Black

D. Red

Q96 **CORRECT** Which material is used to make electrode holder for welding?

A. Steel

B. Cast iron

C. Cast iron

D. Copper alloy

Q97 **CORRECT** What is the purpose of using goggles during chipping the slag from weld bead?

A. To protect eyes

B. To protect hand

C. To protect leg

D. To protect head

Q98 **CORRECT** 1 Which control device is used to maintain the room air temperature?

A. OLP

B. Relay

C. Thermostat

D. Selector switch

Q99 **INCORRECT** 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

Q100 **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