

Trinity ITI Udyavara

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52.48% 53 / 101

Student Name	Shodhan	Access Code	6756
Attempt No.	#1	Completion Time	04:00 PM
Rank	#2	Total Questions	101

53 SCORE

101 MAX MARKS

53 CORRECT

48 INCORRECT

Answer Review

Q1 **CORRECT** What is the atmospheric pressure at sea level?

A. 1.033 kg/cm² ☒

B. 1.3 Kg/cm² ☐

C. 1.5 Kg/cm² ☐

D. 1.6 Kg/cm² ☐

Q2 **CORRECT** What is the rate of doing work?

A. Duty ☐

B. Force ☐

C. Power ☒

D. Velocity ☐

Q3 **INCORRECT** What is the melting temperature of silver brazing rod?

A. 1120 Degree F ☐

B. 1200 Degree F ☒

C. 1250 Degree F ☐

D. 1300 Degree F ☐

Q4 **INCORRECT** Which instrument is used to measure atmospheric pressure?

A. Hygrometer ☐

B. Hydrometer ☒

C. Manometer ☐

D. Barometer ☐

Q5 **INCORRECT** 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) ☐

Q6 **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 ☐

Q7 **INCORRECT** What is bottom dead centre in reciprocating compressor cylinder?

A. The piston moves up from the point of cylinder ☐

B. The piston stops in cylinder at top

C. The piston moves down from the point of cylinder ☐

D. The piston starts in cylinder at top

Q8 **CORRECT** What is the barometer reading at sea level in Hg column?

A. 760 mm ☐

B. 750 mm

C. 740 mm

D. 730 mm

Q9 **INCORRECT** What is the capacity of doing work?

A. Work

B. Power ☐

C. Force

D. Energy ☐

Q10 **INCORRECT** Which instrument is used for measuring heat?

A. Thermometer ☐

B. Anemometer

C. Calorimeter ☐

D. Ammeter

Q11 **INCORRECT** Which refrigeration system works on directly by the heat energy?

A. Jet refrigeration

B. Mechanical refrigeration

C. Vapour absorption refrigeration ☒

D. Vapour compression refrigeration ☐

Q12 **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

Q13 **CORRECT** How the level of heat in a substance is expressed?

A. Micron

B. Pressure

C. Humidity

D. Temperature ☒

Q14 **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

Q15 **CORRECT** What is the physical state of ammonia at condenser inlet in vapour absorption system?

A. Solid

B. Liquid

C. Vapour ☒

D. Semi solid

Q16 **INCORRECT** 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

Q17 **INCORRECT** Which thermodynamic process the temperature is kept constant?

A. Isobaric process ☐

B. Isothermal process ☒

C. Constant volume process

D. Constant pressure process

Q18 **CORRECT** What is the equivalent absolute scale for centigrade?

A. Kelvin ☒

B. Celsius

C. Rankine

D. Fahrenheit

Q19 **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

Q20 **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 ☐

Q21 **INCORRECT** What is top dead centre in reciprocating compressor cylinder?

- A. The piston moves down from the point of cylinder ☐
- B. The piston moves up from the point of cylinder
- C. The piston stops in cylinder at bottom ☐
- D. The piston starts in cylinder at bottom

Q22 **INCORRECT** Which component controls the thermostat and defrost heater in frost free refrigerator?

- A. Thermoheater
- B. Defrost timer ☐
- C. Relay ☐
- D. OLP

Q23 **CORRECT** What is the advantage of using flux in brazing?

- A. Over heating
- B. Melting tubes
- C. Prevent Oxidation ☒
- D. Chemical reaction

Q24 **CORRECT** Which compressor dome handles high pressure and high temperature vapour?

- A. Semi hermetic reciprocating compressor
- B. Open type reciprocating compressor
- C. Hermetic reciprocating compressor
- D. Hermetic rotary compressor ☒

Q25 **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

Q26 **INCORRECT** Which two components do the compressor function in vapour absorption system?

- A. Generator and absorber ☒
- B. Generator and separator
- C. Generator and condenser ☐
- D. Generator and evaporator

Q27 **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 ☐

Q28 **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 ☐

Q29 **INCORRECT** Which factors produce work?

A. Force and distance ☒

B. Time and distance ☐

C. Force and power ☐

D. Force and time ☐

Q30 **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 ☒

Q31 **INCORRECT** 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

Q32 **INCORRECT** What is the type of condenser used in direct cool refrigerator?

A. Fin and tube

B. Shell and tube ☐

C. Wire mesh ☒

D. Tube in tube

Q33 **CORRECT** Which type of condenser is directly placed on water spray and air?

A. Shell and tube condenser

B. Water cooled condenser

C. Evaporative condenser ☒

D. Air cooled condenser

Q34 **CORRECT** Which type of condenser is used in window Air conditioner?

A. Natural convection

B. Forced convection ☒

C. Water cooled

D. Evaporative

Q35 **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

Q36 **CORRECT** Which is the constant reference for the working of AEV?

A. Oil temperature

B. Suction pressure ☒

C. Volume expansion

D. Discharge pressure

Q37 **CORRECT** 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

Q38 **CORRECT** Which evaporator is known as extended surface evaporator?

A. Evaporator tubes

B. Finned evaporator ☒

C. Bare tube evaporator

D. Coiled stake evaporator

Q39 **INCORRECT** Which type of insulation material is used in modern refrigerators?

A. Saw dust

B. Glass wool ☐

C. Thermocole

D. Poly urethane foam ☐

Q40 **CORRECT** Which colour is used for painting condenser coil?

A. Green

B. Black ☐

C. Blue

D. Red

Q41 **INCORRECT** What is the physical state of refrigerant at the outlet of condenser in vapour compression cycle?

A. High pressure vapour

B. High pressure liquid ☐

C. Low pressure liquid ☐

D. Low pressure vapour

Q42 **INCORRECT** Which type of drier filter is suitable for HFC refrigerants?

A. Molecular sieve type ☐

B. Activated alumina ☐

C. Activated carbon

D. Silica gel

Q43 **INCORRECT** What is the purpose of chemical spraying on finned condenser?

A. Flush out the condenser tubes

B. Remove the rust on the fins ☐

C. Blow the dust from the fins

D. Correct the bends in fins ☐

Q44 **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

Q45 **CORRECT** Which component is connected in series with defrost heater in a frost free refrigerator?

A. Door switch

B. Cabinet bulb

C. Bimetal thermo ☐

D. Heating element

Q46 **INCORRECT** How much minimum gap is left on either side of the refrigerator from the wall during installation?

A. 5 cm ☐

B. 10 cm

C. 15 cm ☐

D. 25 cm

Q47 **CORRECT** Where the dehydrator is installed in a refrigeration system?

A. Discharge line

B. Capillary line

C. Suction line

D. Liquid line ☒

Q48 **INCORRECT** 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

Q49 **CORRECT** Which gas is used for flushing blocked capillary tube?

A. Moist air

B. Hydrogen

C. Dry nitrogen ☒

D. Aqua ammonia

Q50 **CORRECT** 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 ☒

Q51 **INCORRECT** Which cooling medium is used to condense the refrigerant vapour in plate and tube condenser?

A. Natural Air ☐

B. Forced Air

C. Water

D. Brine solution ☐

Q52 **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

Q53 **INCORRECT** Which application uses the capillary tube expansion device?

A. Domestic RAC units ☐

B. Industrial ice plants ☐

C. Commercial AC plants

D. Hospital IAQ systems

Q54 **CORRECT** Which expansion valve is suitable for constant load operation?

A. King valve

B. Relief valve

C. Low side float valve

D. Automatic expansion valve ☐

Q55 **INCORRECT** What is the physical change of refrigerant in evaporator?

A. Solid to liquid

B. Vapour to solid ☐

C. Liquid to vapour ☐

D. Vapour to liquid

Q56 **INCORRECT** What is the process of accumulation of ice on the surface of evaporator?

A. Frosting ☐

B. Defrosting ☐

C. Evacuating

D. Melting of frost

Q57 **INCORRECT** What is the use of dehydrator?

A. Absorb oil

B. Absorb heat ☐

C. Absorb refrigerant

D. Absorb moisture ☐

Q58 **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

Q59 **INCORRECT** What is the desiccant used in dehydrator of hydrocarbon charged RAC unit?

A. Silica gel ☐

B. Ammonia ☒

C. Sulphur dioxide

D. Calcium chloride

Q60 **INCORRECT** Which is the constant operating condition of TEV?

A. Super heat at suction line point ☐

B. Evaporator pressure at its inlet

C. Enthalpy at the evaporator outlet ☒

D. Entropy at the condenser outlet

Q61 **CORRECT** 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 ☐

Q62 **CORRECT** Why evaporator of air conditioner has more fins per inch?

A. Increase the air contact ☐

B. Increase the water dripping

C. Decrease the air circulation

D. Produce more ice

Q63 **CORRECT** Why frost accumulates in window AC evaporator?

- A. Over charge of refrigerant
- B. Less charge of refrigerant
- C. Capillary chocking
- D. Air filter blocked ☒

Q64 **CORRECT** What is the effect of pressure drop at the inlet of the evaporator?

- A. Flashing of liquid refrigerant ☒
- B. Freezing of liquid refrigerant
- C. Freezing of liquid
- D. Boiling of oil

Q65 **INCORRECT** What is the remedy for broken bimetal thermo in a frost free refrigerator?

- A. Repair the bimetal thermo
- B. Reuse the bimetal thermo ☐
- C. Replace the bimetal thermo ☒
- D. Readjust the bimetal thermo

Q66 **CORRECT** Why there is no frosting at the bottom only in plate coil evaporator used with refrigerator?

- A. Shortage of refrigerant
- B. Oil present in the coil ☒
- C. Excess of refrigerant
- D. Liquid in the coil

Q67 **CORRECT** Why the supply air throw is decreased in window AC?

- A. Normal RPM of fan motor
- B. Clean air filter
- C. Refrigerant leaks
- D. Frost blocks air circulation ☒

Q68 **CORRECT** What is the remedy for defective heating element in a frost free refrigerator?

- A. Repair heater
- B. Readjust the heater
- C. Replace heater and bimetal thermo ☒
- D. Reuse the heater and over load protector

Q69 **INCORRECT** What are the causes for blockage in capillary tube?

- A. Non condensable gases ☐
- B. Moisture and wax from oil ☒
- C. Solid particles
- D. Over charging of refrigerant

Q70 **CORRECT** What is the reason for frost accumulation in between fins and tubes of evaporator in frost free refrigerator?

- A. Under charge of refrigerant
- B. Over charge of refrigerant
- C. Defective fan motor ☒
- D. Defective timer

Q71 **INCORRECT** What is the reason for no cooling in a frost free refrigerator?

A. Defective fan motor ☐

B. Open door switch

C. High watt Cabinet bulb

D. Defective timer ☐

Q72 **CORRECT** Why the capillary tube is preferred as an expansion device?

A. No system pressure equalising

B. Inexpensive and has no moving parts ☐

C. Expensive and more moving parts

D. Periodical servicing is required

Q73 **CORRECT** Which component defrosts in frost free refrigerator?

A. Bulb

B. Heater ☐

C. Thermostat

D. Capillary tube

Q74 **CORRECT** Where the thermal bulb is fixed in frost free refrigerator?

A. Liquid line

B. Discharge line

C. Last coil of condenser

D. Last coil of evaporator ☐

Q75 **CORRECT** Which component switches ON/OFF the starting winding in RSIR motor?

A. Thermostat

B. Capacitor

C. Relay ☒

D. OLP

Q76 **INCORRECT** What is the cut out temperature of bimetal thermo in frost free refrigerator?

A. 5 Degree Centigrade ☐

B. 10 Degree Centigrade ☒

C. 20 Degree Centigrade

D. 25 Degree Centigrade

Q77 **INCORRECT** Which domestic system uses automatic defrost?

A. Frost free refrigerator ☒

B. Conventional refrigerator

C. Split air - conditioner

D. Window air - conditioner ☐

Q78 **CORRECT** Which sheet is used to check the tightness of door gasket of a refrigerator?

A. Rubber

B. Plastic ☒

C. Copper

D. Zinc

Q79 **INCORRECT** Which is used to clean the condenser fins of a refrigerator?

A. Painting brush ☐

B. Diluted acid ☐

C. Soap solution

D. Fin comb

Q80 **INCORRECT** How the capacity of refrigerator is expressed?

A. Weightage

B. Tonnage ☐

C. Wattage

D. Litres ☐

Q81 **CORRECT** What is the temperature maintained in the refrigerator freezer?

A. 0 Degree Centigrade

B. - 15 Degree Centigrade ☐

C. - 45 Degree Centigrade

D. - 65 Degree Centigrade

Q82 **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

Q83 **CORRECT** Which component is used in frost free refrigerator?

A. Plate coil evaporator

B. Liquid receiver

C. Oil separator

D. Timer switch ☒

Q84 **INCORRECT** Which type of evaporator is used in frost free refrigerator?

A. Plate type ☐

B. Wire mesh

C. Finned tube ☒

D. Shell and tube

Q85 **CORRECT** Which device protects the compressor motor from drawing more current?

A. OLP ☒

B. Relay

C. Thermostat

D. Door switch

Q86 **CORRECT** Which device equalizes the system pressure in frost free refrigerator?

A. Capillary tube ☒

B. Compressor

C. Condenser

D. Evaporator

Q87 **CORRECT** Which method of refrigeration system is adopted in frost free refrigerator?

A. Vapour compression ☒

B. Vapour absorption

C. Water vapour

D. Evacuating

Q88 **INCORRECT** Which electrical control cuts off heating element in frost free refrigerator?

A. Bimetal thermo ☒

B. Thermostat

C. Relay

D. Timer ☐

Q89 **CORRECT** What is the working condition of component during defrost cycle in frost free refrigerator?

A. Evaporator fan motor is running

B. Compressor is not running ☒

C. Thermostat cuts off

D. Relay activated

Q90 **INCORRECT** Which component actuates the defrost cycle in frost free refrigerator?

A. Bimetal thermo

B. Defrost heater ☐

C. Timer ☒

D. Relay

Q91 **INCORRECT** Which component is turned off while defrost heater is energised?

- A. Cabinet bulb
- B. Evaporator fan ☐
- C. Thermostat sensor ☐
- D. Over load protector

Q92 **CORRECT** Which movement of plunger energises the start winding in relay operation?

- A. Vertically up ☐
- B. Bottom side
- C. Vertically down
- D. Horizontally left

Q93 **INCORRECT** Which is connected in series with start capacitor in motor circuit?

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

Q94 **CORRECT** What is the advantage of sealed system compared to open type system?

- A. Mechanical efficiency is greater
- B. Cylinder lubrication is easier
- C. Any refrigerant can be used
- D. No shaft seal is required ☐

Q95 **INCORRECT** Why frost free model refrigerator takes less freezing time of products?

A. Forced air circulation ☐

B. Natural air circulation

C. Low temperature setting ☐

D. High temperature setting

Q96 **CORRECT** What is the reason if refrigerator runs normally but no cooling effect?

A. Leakage of refrigerant ☐

B. Condenser block

C. Filter block

D. Over charge

Q97 **INCORRECT** What is the effect of bimetal thermo sticks in ON position in frost free refrigerator?

A. Accumulation of frost

B. More cooling ☐

C. Poor cooling

D. No cooling ☐

Q98 **CORRECT** What is the effect of contamination in refrigeration system?

A. High heating

B. Poor cooling ☐

C. Low pressure

D. Low humidity

Q99 **CORRECT** What is the cause for refrigerator door gap at closing position?

- A. Uneven floor level ☒
- B. Either side gap more
- C. Either side gap less
- D. Uneven condenser level

Q100 **CORRECT** Which component is replaced to prevent air entering the refrigerator cabinet?

- A. Thermostat
- B. Door gasket ☒
- C. Door paint
- D. Door hinges

Q101 **INCORRECT** What is the result if discharge reed is broken in open type compressor?

- A. Poor pumping ☐
- B. More pumping
- C. Oil pumping
- D. No pumping ☒