

Trinity ITI Udyavara

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|--------------|---------|-----------------|----------|
| Student Name | SHARATH | Access Code | 8478 |
| Attempt No. | #1 | Completion Time | 01:51 PM |
| Rank | #9 | Total Questions | 135 |

35 SCORE

135 MAX MARKS

35 CORRECT

100 INCORRECT

Answer Review

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

A. 1.033 kg/cm^2

B. 1.3 Kg/cm^2

C. 1.5 Kg/cm^2

D. 1.6 Kg/cm^2

Q2 **INCORRECT** 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 **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

Q7 **CORRECT** 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 **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** What is the equivalent absolute scale for centigrade?

A. Kelvin

B. Celsius

C. Rankine

D. Fahrenheit

Q19 **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

Q20 **INCORRECT** 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 **INCORRECT** 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 **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

Q26 **CORRECT** 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 **INCORRECT** 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 **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

Q32 **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

Q33 **INCORRECT** Which winding is made of thin wire in single phase motor?

A. Main

B. Series

C. Starting

D. Running

Q34 **CORRECT** What is the physical condition of refrigerant in hermetic dome of rotary compressor?

A. LP Liquid

B. HP Liquid

C. HP Vapour

D. LP Vapour

Q35 **CORRECT** Which is a positive displacement compressor?

A. Centrifugal compressor

B. Scroll compressor

C. Water pump

D. Oil pump

Q36 **INCORRECT** Which instrument is used to identify the terminals of a compressor motor?

A. Ammeter

B. Voltmeter

C. Ohm meter

D. Anemometer

Q37 **INCORRECT** Which motor has the least starting torque?

A. CSIR

B. CSR

C. RSIR

D. PSC

Q38 **CORRECT** Which motor has the least starting torque?

A. CSIR

B. CSR

C. RSIR

D. PSC

Q39 **INCORRECT** Which winding is made of thick wire in single phase induction motor?

A. Starting

B. Running

C. Auxiliary

D. Additional

Q40 **CORRECT** Which type of compressor is used for domestic refrigerator?

A. Semi sealed compressor

B. Centrifugal compressor

C. Hermetic compressor

D. Open type compressor

Q41 **INCORRECT** What is the revolving part of induction motor?

A. Stator

B. Rotor

C. Relay

D. Winding

Q42 **INCORRECT** Which type of rotor is used in 3 Phase induction motor?

A. Squirrel cage rotor

B. Shaded pole rotor

C. Laminated rotor

D. Solid rotor

Q43 **CORRECT** What is the temperature set in thermostat that stops the compressor motor?

A. Cut in

B. Range

C. Cut out

D. Differential

Q44 **INCORRECT** Which lubricant oil is used in swash plate of R 134a compressor?

A. Servo 20

B. POE

C. SAE - 40

D. Mineral oil

Q45 **CORRECT** Which valve is closed during compression stroke in reciprocating compressor?

A. Service valve

B. Liquid line valve

C. Discharge valve

D. Suction valve

Q46 **INCORRECT** Which gas is used for pressure testing the compressor dome?

A. Air

B. Oxygen

C. Nitrogen

D. Refrigerant

Q47 **CORRECT** 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

Q48 **INCORRECT** 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

Q49 **INCORRECT** 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

Q50 **INCORRECT** 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

Q51 **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

Q52 **CORRECT** Which movement of the scroll compresses the low pressure vapour in scroll compressor?

A. Reciprocating

B. Centrifugal

C. Rotating

D. Orbital

Q53 **INCORRECT** Which capacitor is disconnected by relay in capacitor start and induction run motor?

A. Starting capacitor

B. Running capacitor

C. Boosting capacitor

D. Power factor correction capacitor

Q54 **CORRECT** 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. $N_s = (120P/f)$

Q55 **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

Q56 **INCORRECT** How the difference between the synchronous speed and the actual rotor speed is specified?

A. Lead

B. Lag

C. Slip

D. Trip

Q57 **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

Q58 **INCORRECT** Where the refrigerant vapour is compressed in scroll compressor?

A. Fixed and reciprocating scroll

B. Between fixed and orbiting scrolls

C. Crank and connecting rod

D. Eccentric and cylinder

Q59 **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

Q60 **INCORRECT** Which is disconnected by centrifugal switch in RSIR motor?

- A. Running winding
- B. Common winding
- C. Starting winding
- D. Running capacitor

Q61 **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

Q62 **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

Q63 **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

Q64 **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

Q65 **INCORRECT** What is the cause for frequent tripping of circuit breaker while starting a single phase motor?

A. Winding open

B. Winding short

C. Motor belt removed

D. No load on the motor

Q66 **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

Q67 **INCORRECT** 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

Q68 **INCORRECT** Which type of condenser is used in window Air conditioner?

A. Natural convection

B. Forced convection

C. Water cooled

D. Evaporative

Q69 **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

Q70 **INCORRECT** Which is the constant reference for the working of AEV?

A. Oil temperature

B. Suction pressure

C. Volume expansion

D. Discharge pressure

Q71 **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

Q72 **INCORRECT** Which evaporator is known as extended surface evaporator?

A. Evaporator tubes

B. Finned evaporator

C. Bare tube evaporator

D. Coiled stake evaporator

Q73 **CORRECT** Which type of insulation material is used in modern refrigerators?

A. Saw dust

B. Glass wool

C. Thermocole

D. Poly urethane foam

Q74 **INCORRECT** Which colour is used for painting condenser coil?

A. Green

B. Black

C. Blue

D. Red

Q75 **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

Q76 **INCORRECT** Which type of drier filter is suitable for HFC refrigerants?

A. Molecular sieve type

B. Activated alumina

C. Activated carbon

D. Silica gel

Q77 **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

Q78 **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

Q79 **INCORRECT** 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

Q80 **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

Q81 **INCORRECT** Where the dehydrator is installed in a refrigeration system?

A. Discharge line

B. Capillary line

C. Suction line

D. Liquid line

Q82 **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

Q83 **CORRECT** Which gas is used for flushing blocked capillary tube?

A. Moist air

B. Hydrogen

C. Dry nitrogen

D. Aqua ammonia

Q84 **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

Q85 **CORRECT** 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

Q86 **INCORRECT** Which gas is used to flush out the coils of air cooled condenser?

A. Dry nitrogen

B. Pure dry air

C. Oxygen

D. kaksr

Q87 **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

Q88 **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

Q89 **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

Q90 **INCORRECT** What is the process of accumulation of ice on the surface of evaporator?

A. Frosting

B. Defrosting

C. Evacuating

D. Melting of frost

Q91 **CORRECT** What is the use of dehydrator?

- A. Absorb oil
- B. Absorb heat
- C. Absorb refrigerant
- D. Absorb moisture

Q92 **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

Q93 **INCORRECT** What is the desiccant used in dehydrator of hydrocarbon charged RAC unit?

- A. Silica gel
- B. Ammonia
- C. Sulphur dioxide
- D. Calcium chloride

Q94 **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

Q95 **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

Q96 **INCORRECT** 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

Q97 **INCORRECT** Why frost accumulates in window AC evaporator?

A. Over charge of refrigerant

B. Less charge of refrigerant

C. Capillary chocking

D. Air filter blocked

Q98 **INCORRECT** 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

Q99 **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

Q100 **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

Q101 **INCORRECT** 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

Q102 **INCORRECT** 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

Q103 **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

Q104 **INCORRECT** 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

Q105 **CORRECT** 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

Q106 **INCORRECT** 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

Q107 **CORRECT** Which component defrosts in frost free refrigerator?

A. Bulb

B. Heater

C. Thermostat

D. Capillary tube

Q108 **INCORRECT** 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

Q109 **INCORRECT** Which component switches ON/OFF the starting winding in RSIR motor?

A. Thermostat

B. Capacitor

C. Relay

D. OLP

Q110 **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

Q111 **INCORRECT** Which domestic system uses automatic defrost?

A. Frost free refrigerator

B. Conventional refrigerator

C. Split air - conditioner

D. Window air - conditioner

Q112 **INCORRECT** Which sheet is used to check the tightness of door gasket of a refrigerator?

A. Rubber

B. Plastic

C. Copper

D. Zinc

Q113 **INCORRECT** Which is used to clean the condenser fins of a refrigerator?

A. Painting brush

B. Diluted acid

C. Soap solution

D. Fin comb

Q114 **INCORRECT** How the capacity of refrigerator is expressed?

A. Weightage

B. Tonnage

C. Wattage

D. Litres

Q115 **INCORRECT** 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

Q116 **INCORRECT** 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

Q117 **INCORRECT** Which component is used in frost free refrigerator?

A. Plate coil evaporator

B. Liquid receiver

C. Oil separator

D. Timer switch

Q118 **INCORRECT** Which type of evaporator is used in frost free refrigerator?

A. Plate type

B. Wire mesh

C. Finned tube

D. Shell and tube

Q119 **INCORRECT** Which device protects the compressor motor from drawing more current?

A. OLP

B. Relay

C. Thermostat

D. Door switch

Q120 **INCORRECT** Which device equalizes the system pressure in frost free refrigerator?

A. Capillary tube

B. Compressor

C. Condenser

D. Evaporator

Q121 **INCORRECT** Which method of refrigeration system is adopted in frost free refrigerator?

A. Vapour compression

B. Vapour absorption

C. Water vapour

D. Evacuating

Q122 **INCORRECT** Which electrical control cuts off heating element in frost free refrigerator?

A. Bimetal thermo

B. Thermostat

C. Relay

D. Timer

Q123 **INCORRECT** 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

Q124 **CORRECT** Which component actuates the defrost cycle in frost free refrigerator?

A. Bimetal thermo

B. Defrost heater

C. Timer

D. Relay

Q125 **CORRECT** Which component is turned off while defrost heater is energised?

A. Cabinet bulb

B. Evaporator fan

C. Thermostat sensor

D. Over load protector

Q126 **CORRECT** Which movement of plunger energises the start winding in relay operation?

A. Vertically up

B. Bottom side

C. Vertically down

D. Horizontally left

Q127 **INCORRECT** Which is connected in series with start capacitor in motor circuit?

A. Starting winding

B. Common terminal

C. Running Terminal

D. Running winding

Q128 **INCORRECT** 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

Q129 **CORRECT** 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

Q130 **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

Q131 **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

Q132 **INCORRECT** What is the effect of contamination in refrigeration system?

A. High heating

B. Poor cooling

C. Low pressure

D. Low humidity

Q133 **INCORRECT** 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

Q134 **INCORRECT** Which component is replaced to prevent air entering the refrigerator cabinet?

A. Thermostat

B. Door gasket

C. Door paint

D. Door hinges

Q135 **CORRECT** 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