

Exam

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Student Name	Yashwith	Access Code	8374
Attempt No.	#1	Completion Time	01:28 PM
Rank	#5	Total Questions	34

7 SCORE

34 MAX MARKS

7 CORRECT

27 INCORRECT

Answer Review

Q1 **INCORRECT** 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 ☐

Q2 **INCORRECT** What is the category of R 290 refrigerant?

A. Halocarbons

B. Azeotropes

C. Hydrocarbons ☐

D. Organic compounds ☐

Q3 **INCORRECT** What type of heat is absorbed by primary refrigerant?

A. Total heat ☐

B. Latent heat ☐

C. Specific heat

D. Sensible heat

Q4 **CORRECT** How much is the maximum capacity of refrigerant to be filled in a returnable service cylinder?

A. Up to 95%

B. Up to 90%

C. Up to 85%

D. Up to 80% ☒

Q5 **INCORRECT** What is the desirable property of POE lubricant?

A. Hygroscopic

B. Miscible with HFCs ☒

C. Forms acid with moisture

D. Toxic gas produced during brazing ☐

Q6 **INCORRECT** Which insulating material is poured as liquid?

A. Glass Wool ☐

B. Cork Board

C. Wood Shave

D. Poly Urethane Foam (PUF) ☒

Q7 **INCORRECT** Which international agency standardises the numbering system for identifying refrigerants?

A. ASHRAE ☒

B. ISHRAE

C. DW142

D. ISO ☐

Q8 **INCORRECT** What is the ozone depleting potential of R 134a Refrigerant?

B. 1

C. 2

D. 3 ☐

Q9 **INCORRECT** What is the category of R 502 refrigerant?

A. Azeotropes ☐

B. Halocarbon

C. Hydrocarbon ☐

D. Organic compounds

Q10 **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

Q11 **INCORRECT** Which gas is universally taken as the basic reference for GWP?

A. SO₂

B. CO₂ ☐

C. NH₃

D. AIR ☐

Q12 **INCORRECT** What is the category of R 407c refrigerant?

A. Azeotropes ☐

B. Zeotropes ☐

C. Inorganic

D. Organic

Q13 **CORRECT** What is the cylinder colour code of R 22 refrigerant?

A. White

B. Green ☐

C. Orchid

D. Orange

Q14 **INCORRECT** Where does the ozone layer exist in atmosphere?

A. Mesosphere

B. Stratosphere ☐

C. Ionosphere ☐

D. Exosphere

Q15 **INCORRECT** Which is the inorganic refrigerant?

A. R 170

B. R 500 ☐

C. R 630

D. R 717 ☐

Q16 **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

Q17 **INCORRECT** Which refrigerant is inactive to ozone layer?

A. R 12 ☐

B. R 13

C. R 22

D. R 134a ☐

Q18 **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. $700 + (\text{Molecular mass of NH}_3) = 720$

Q19 **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 ☐

Q20 **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

Q21 **INCORRECT** Which is the effective method for refrigerant recovery?

A. Condensing unit

B. Charge migration

C. Push pull recovery ☒

D. Use of system's compressor ☐

Q22 **INCORRECT** How numerical designations of inorganic refrigerants are assigned?

A. Divide 700 to molecular mass of compound ☐

B. Multiply 700 to molecular mass of compound

C. Adding 700 to molecular mass of compound ☒

D. Subtracting 700 from molecular mass of compound

Q23 **INCORRECT** How many hydrogen atoms are present in R 134a?

A. One

B. Two ☒

C. Four ☐

D. Three

Q24 **INCORRECT** Which refrigerant is used in vapour compression cycle?

A. Secondary refrigerant

B. Primary refrigerant ☐

C. Brine solution

D. Water ☐

Q25 **CORRECT** Which position is safe for storing refrigerant cylinder?

A. Upside down

B. Horizontal

C. Inclined

D. Upright ☐

Q26 **CORRECT** How to prevent the small pieces of glass wool affecting the eyes?

A. Wearing goggles ☐

B. Wearing gloves

C. Using mask

D. Using shoes

Q27 **INCORRECT** 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

Q28 **INCORRECT** What is the name of process that changes the used refrigerant to new product?

A. Recover ☐

B. Recycle

C. Reclaim ☐

D. Manufacture

Q29 **CORRECT** Why HCFC 22 refrigerant is recycled?

A. Decrease the cost of production

B. Make use of the same lubricant

C. Reduce ODP and GWP of environment ☐

D. Increase the efficiency of RAC systems

Q30 **INCORRECT** How to safe guard the hands while handling glass wool?

A. Wearing goggles

B. Wearing gloves ☐

C. Using mask ☐

D. Using shoes

Q31 **INCORRECT** 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 ☐

Q32 **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

Q33 **CORRECT** What is the effect of releasing HCFC refrigerants to atmosphere?

A. Increases ODP and GWP ☒

B. Decreases GWP and ODP

C. Decreases TEWI

D. Inactive to TEWI

Q34 **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 ☐