

Exam

Q. ID: ITISKILL3363LD | July 2026

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Student Name	Madhusudhan	Access Code	9299
Attempt No.	#1	Completion Time	07:21 PM
Rank	#4	Total Questions	34

9 SCORE

34 MAX MARKS

9 CORRECT

25 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 **CORRECT** 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 **CORRECT** 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 **CORRECT** 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 **CORRECT** What is the category of R 407c refrigerant?

A. Azeotropes

B. Zeotropes ☒

C. Inorganic

D. Organic

Q13 **INCORRECT** 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 **INCORRECT** 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 **CORRECT** 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 **INCORRECT** Which position is safe for storing refrigerant cylinder?

A. Upside down

B. Horizontal

C. Inclined ☐

D. Upright ☐

Q26 **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 ☐

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

A. Recover

B. Recycle

C. Reclaim ☒

D. Manufacture

Q29 **INCORRECT** 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 **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

Q33 **INCORRECT** 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 **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