

July 2026

Answer Key

Duration: 30 Mins

Total Marks: 34

Q.ID: ITISKILL3363LD

1. Which insulating material is poured as liquid?

- A) Cork Board B) Wood Shave
C) Glass Wool D) Poly Urethane Foam (PUF)

Answer: D) Poly Urethane Foam (PUF)

2. How numerical designations of inorganic refrigerants are assigned?

- A) Divide 700 to molecular mass of compound B) Subtracting 700 from molecular mass of compound
C) Multiply 700 to molecular mass of compound D) Adding 700 to molecular mass of compound

Answer: D) Adding 700 to molecular mass of compound

3. Which is the effective method for refrigerant recovery?

- A) Condensing unit B) Use of system's compressor
C) Push pull recovery D) Charge migration

Answer: C) Push pull recovery

4. Which property is desirable for an ideal refrigerant?

- A) High freezing point B) High specify volume
C) High boiling point D) High latent heat value

Answer: D) High latent heat value

5. Which is the green house gas?

- A) Neon of atmospheric air B) Chlorofluoro carbon in air
C) Oxygen of atmospheric air D) Helium of atmospheric air

Answer: B) Chlorofluoro carbon in air

6. Where does the ozone layer exist in atmosphere?

- A) Stratosphere B) Mesosphere
C) Ionosphere D) Exosphere

Answer: A) Stratosphere

7. What type of heat is absorbed by primary refrigerant?

- A) Specific heat B) Latent heat
C) Sensible heat D) Total heat

Answer: B) Latent heat

8. What is the advantage of universal colour coding of refrigerant cylinders?

- A) Prevent corrosion on cylinder B) Make good appearance
C) Easy to identify D) Provide extra strength to cylinder

Answer: C) Easy to identify

9. Which international agency standardises the numbering system for identifying refrigerants?

- A) ISHRAE B) DW142
C) ISO D) ASHRAE

Answer: D) ASHRAE

10. Why universal numbering system is adopted for different refrigerants?

- A) Identifying the refrigerant's names B) Mixing the lubricant combination
C) Identify the systems D) Fixing the drier combination

Answer: A) Identifying the refrigerant's names

11. What is the effect of releasing HFC refrigerants to the atmosphere?

- A) Increase ozone depleting potential B) Increase global warming potential
C) Improve water pollution D) Decrease green house effect

Answer: B) Increase global warming potential

12. 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%

Answer: D) Up to 80%

13. Which position is safe for storing refrigerant cylinder?

- A) Inclined B) Horizontal
C) Upright D) Upside down

Answer: C) Upright

14. What is the ozone depleting potential of R 134a Refrigerant?

- A) 3 B) 2
C) 1 D) 0

Answer: D) 0

15. How to prevent the small pieces of glass wool affecting the eyes?

- A) Using shoes B) Wearing gloves
C) Wearing goggles D) Using mask

Answer: C) Wearing goggles

16. What is the category of R 290 refrigerant?

- A) Hydrocarbons B) Azeotropes
C) Organic compounds D) Halocarbons

Answer: A) Hydrocarbons

17. Which type of insulating material is used for making ice box to cool beverages?

- A) Thermocole B) Glass wool
C) Fibre glass D) Tar felt

Answer: A) Thermocole

18. Which gas is universally taken as the basic reference for GWP?

- A) CO_2 B) SO_2
C) AIR D) NH_3

Answer: A) CO_2

19. Why HCFC 22 refrigerant is recycled?

- A) Make use of the same lubricant B) Increase the efficiency of RAC systems
C) Reduce ODP and GWP of environment D) Decrease the cost of production

Answer: C) Reduce ODP and GWP of environment

20. How to safe guard the hands while handling glass wool?

- A) Wearing goggles B) Using mask
C) Wearing gloves D) Using shoes

Answer: C) Wearing gloves

21. How many hydrogen atoms are present in R 134a?

- A) Two B) One
C) Four D) Three

Answer: A) Two

22. Which is the inorganic refrigerant?

- A) R 630 B) R 500
C) R 717 D) R 170

Answer: C) R 717

23. What is the category of R 407c refrigerant?

- A) Azeotropes B) Inorganic
C) Zeotropes D) Organic

Answer: C) Zeotropes

24. What is the effect of releasing HCFC refrigerants to atmosphere?

- A) Decreases GWP and ODP B) Decreases TEWI
C) Increases ODP and GWP D) Inactive to TEWI

Answer: C) Increases ODP and GWP

25. What does the number 4 of R 134a indicate?

- A) Number of hydrogen atoms B) Number of carbon atoms
C) Number of fluorine atoms D) Number of chlorine atoms

Answer: C) Number of fluorine atoms

26. How the refrigerants are classified based on heat absorption by latent and sensible heat?

- A) Zeotropic and azeotropic B) Halocarbons and hydrocarbons
C) Organic and inorganic D) Primary and secondary

Answer: D) Primary and secondary

27. What is the category of R 502 refrigerant?

- A) Azeotropes B) Hydrocarbon
C) Halocarbon D) Organic compounds

Answer: A) Azeotropes

28. What is the cylinder colour code of R 22 refrigerant?

- A) Orchid B) White
C) Orange D) Green

Answer: D) Green

29. What is the name of process that changes the used refrigerant to new product?

- A) Reclaim B) Recover
C) Manufacture D) Recycle

Answer: A) Reclaim

30. Which refrigerant is used in vapour compression cycle?

- A) Primary refrigerant B) Water
C) Brine solution D) Secondary refrigerant

Answer: A) Primary refrigerant

31. What is the desirable property of POE lubricant?

- A) Forms acid with moisture B) Toxic gas produced during brazing
C) Hygroscopic D) Miscible with HFCs

Answer: D) Miscible with HFCs

32. Which is the numerical designation of ammonia refrigerant?

- A) $700 + (\text{Molecular mass of NH}_3) = 717$ B) $700 + (\text{Molecular mass of NH}_3) = 719$
C) $700 + (\text{Molecular mass of NH}_3) = 718$ D) $700 + (\text{Molecular mass of NH}_3) = 720$

Answer: A) $700 + (\text{Molecular mass of NH}_3) = 717$

33. Which substance absorbs heat and directly changes its state from solid to vapour?

- A) Dry ice B) Primary refrigerants
C) Secondary refrigerants D) Ice

Answer: A) Dry ice

34. Which refrigerant is inactive to ozone layer?

A) R 22

B) R 12

C) R 134a

D) R 13

Answer: C) R 134a
