

April 2026

GOVT ITI PERDOOR

Question Paper

Duration: 20 Mins

Total Marks: 25

ID: ITISKILL7795CX

Student Name: _____	Roll No: _____
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1. 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

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

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

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

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

4. Which is the inorganic refrigerant?

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

5. What is the category of R 290 refrigerant?

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

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

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

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

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

8. Which insulating material is poured as liquid?

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

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

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

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

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

11. How much is the maximum capacity of refrigerant to be filled in a returnable service cylinder?

- A) Up to 80% B) Up to 95%
C) Up to 85% D) Up to 90%

12. Which position is safe for storing refrigerant cylinder?

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

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

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

14. How numerical designations of inorganic refrigerants are assigned?

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

15. Which is the effective method for refrigerant recovery?

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

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

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

17. Which refrigerant is used in vapour compression cycle?

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

18. Which refrigerant is inactive to ozone layer?

- A) R 22
- B) R 13
- C) R 134a
- D) R 12

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

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

20. What is the desirable property of POE lubricant?

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

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

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

22. What is the advantage of universal colour coding of

refrigerant cylinders?

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

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

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

24. Where does the ozone layer exist in atmosphere?

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

25. Which property is desirable for an ideal refrigerant?

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