

TRADE THEORY MONTHLY TEST

Q. ID: ITISKILL5541QO

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GOVT ITI MANVI

Question Paper

Duration: 30 Mins

Total Marks: 25

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Student Name: _____ Roll No: _____

1. Which refrigerant is inactive to ozone layer?

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

2. Which property is desirable for an ideal refrigerant?

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

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

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

4. Why frost accumulates in window AC evaporator?

- A) Less charge of refrigerant B) Capillary chocking
C) Over charge of refrigerant D) Air filter blocked

5. What is the reason for frost accumulation in between fins and tubes of evaporator in frost free refrigerator?

- A) Over charge of refrigerant B) Defective fan motor
C) Under charge of refrigerant D) Defective timer

6. What is the category of R 290 refrigerant?

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

7. 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%

8. What is the process of accumulation of ice on the surface of evaporator?

- A) Defrosting B) Frosting
C) Melting of frost D) Evacuating

9. Why the capillary tube is preferred as an expansion device?

- A) No system pressure B) Inexpensive and has no moving parts

C) Expensive and more moving parts

D) Periodical servicing is required

10. Why there is no frosting at the bottom only in plate coil evaporator used with refrigerator?

- A) Shortage of refrigerant B) Excess of refrigerant
C) Oil present in the coil D) Liquid in the coil

11. What is the physical change of refrigerant in evaporator?

- A) Liquid to vapour B) Solid to liquid
C) Vapour to liquid D) Vapour to solid

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

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

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

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

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

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

15. Which expansion valve is suitable for constant load operation?

- A) Automatic expansion valve B) Low side float valve
C) King valve D) Relief valve

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

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

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

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

18. What is the use of dehydrator?

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

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

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

20. Which is the inorganic refrigerant?

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

21. What is the effect of pressure drop at the inlet of the evaporator?

- A) Freezing of liquid refrigerant
- B) Boiling of oil
- C) Freezing of liquid
- D) Flashing of liquid refrigerant

22. What is the category of R 502 refrigerant?

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

23. What are the causes for blockage in capillary tube?

- A) Non condensable gases
- B) Moisture and wax from oil
- C) Over charging of refrigerant
- D) Solid particles

24. Which is the numerical designation of ammonia refrigerant?

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

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

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