

Refrigerator and Air Conditioning

(Unit – III)

Assignment-Cum-Tutorial Questions

A. Questions testing the remembering / understanding level of students

I) Objective Questions

- 1) In vapour absorption refrigeration system, the compressor is replaced with
- 2) In lithium bromide – water vapour absorption refrigeration system is the refrigerant and is the adsorbent
- 3) Which of the following is a three fluid system?
a) Aqua Ammonia b) Lithium bromide-water c) Electrolux refrigerator d) steam jet
- 4) Which of the following refrigeration systems work under vacuum pressures?
i) Electrolux refrigerator ii) Aqua Ammonia vapour absorption
iii) Lithium bromide – water vapour absorption iv) Steam jet refrigeration
a) i only b) iii & iv c) iii only d) i, iii & iv
- 5) In which of the following refrigeration systems, water is used as the refrigerant?
i) Aqua Ammonia vapour absorption ii) lithium bromide – water vapour absorption
iii) steam jet refrigeration iv) vapour compression refrigeration
a) iii only b) i, ii & iii c) ii only d) ii & iii
- 6) Which of the following is correct with respect to COP?
a) $(COP)_{\text{vapour compression}} < (COP)_{\text{vapour absorption}} < (COP)_{\text{steam jet}} < (COP)_{\text{thermo electric}}$
b) $(COP)_{\text{thermo electric}} < (COP)_{\text{steam jet}} < (COP)_{\text{vapour absorption}} < (COP)_{\text{vapour compression}}$
c) $(COP)_{\text{thermo electric}} < (COP)_{\text{vapour compression}} < (COP)_{\text{steam jet}} < (COP)_{\text{vapour absorption}}$
d) $(COP)_{\text{steam jet}} < (COP)_{\text{vapour absorption}} < (COP)_{\text{thermo electric}} < (COP)_{\text{vapour compression}}$
- 7) The thermo electric refrigerator works on the principle of
a) Seebeck effect b) Peltier effect c) Joulean effect d) Thomson effect
- 8) A device in which compressed air is used to produce cooling effect at one end of the tube and heating effect at the other end simultaneously is called
a) Vortex tube b) thermo electric refrigerator c) Electrolux refrigerator d) All the above
- 9) The overall COP of thermo electric refrigeration system is of the order of
a) 0.5 to 0.6 b) 0.3 to 0.4 c) 0.1 to 0.2 d) 0.7 to 0.8
- 10)type of compression is suitable when water is the refrigerant due to its enormous suction vapour volume.
a) Ejector b) Centrifugal c) Reciprocating d) All the above

II) Descriptive Questions

1. a) Explain the working of simple aqua ammonia vapour absorption refrigeration system.
b) What are the modifications made to simple vapour absorption refrigeration system to improve its performance? Draw the modified Aqua Ammonia vapour absorption refrigeration system.
2. a) What are the two common refrigerant – absorbent systems? What are basic requirements of absorbent-refrigerant combinations?
b) Explain the working of lithium bromide – water vapour absorption refrigeration system.
3. a) Compare vapour absorption refrigeration system with vapour compression refrigeration system.
b) Explain the working of Electrolux refrigerator with a neat sketch. What are its merits and demerits?
4. a) Explain the working of Steam Ejector refrigeration system.
b) Derive an expression for the mass of motive steam per kg of flash vapor.
5. a) State Seebeck and Peltier effects.
b) Explain the working of thermo electric refrigeration system. What are its merits and demerits?
6. a) Explain the working of Vortex Tube with a neat sketch.
b) What are the advantages and disadvantages of Vortex Tube? What are its applications?

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