Q.17 State difference between SO_2 and F-12 refrigerants.

Q.18 What are secondary refrigerants ? Compare with primary refrigerants.

SECTION-D

Note: Long answer type questions. Attempt any one questions out of two questions. (1x10=10)

Q.19 Explain Bell-Coleman cycle in detail?

Q.20 Explain limitations of Vapour Absorption Refrigeration cycle and write the formula for its efficiency?

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1st Sem / DVOC Level 5 (Ref. & Air Cond.)
Subject : Basics of Refrigeration

Time : 2 Hrs. M.M. : 50

SECTION-A

Note: Multiple Choice questions. All questions are compulsory. (5x1=5)

Q.1 One ton of refrigeration is equal to

a) 21 KJ/min b) 210 KJ/min

c) 420 KJ/min d) 620 KJ/min

Q.2 What is meant by static pressure?

a) Moving air pressure

b) Ambient air pressure

c) Air diffusing pressure

d) Still air pressure

Q.3 Where does higher temperature occurs in vapour compression Refrigeration systems?

a) Receiver b) Evaporator

c) Expansion valve d) Compressor discharge

Q.4 What is the value of one calorie?

a) 32 Joules b) 4.2 Joules

c) 3.2 Joules d) 2.34 Joules

Q.5 Due to absorption of heat by evaporator the refrigerant converts into

a) Saturated vapour b) Liquid

c) Sub cooled liquid d) Saturated liquid

SECTION-B

Note: Objective type questions. All questions are compulsory. (5x1=5)

Q.6 Refrigeration is based on_____ statement of second law of thermodynamics.

Q.7 A set of tubes with external fins placed at back of refrigerator is_____.

Q.8 Chemical formula of Ammonia is_____.

Q.9 Molecular mass of CO_2 is_____.

Q.10 Bell-Coleman cycle is a _____ (practical/ideal) cycle.

SECTION-C

Note: Short answer type questions. Attempt any six questions out of Eight questions. (6x5=30)

Q.11 What is refrigeration? Explain any two simple methods of refrigeration.

Q.12 What is purpose of compressor? Explain its working.

Q.13 Draw P-V & T-S diagram of Carnot cycle?

Q.14 What is Vapour Absorption Refrigeration System. Explain with diagram.

Q.15 Explain 5 properties of ammonia.

Q.16 Write 5 applications of Refrigeration.