

- Q.12 Explain standard vapour compression cycle with PV diagram.
- Q.13 Explain Ice refrigeration with neat sketch.
- Q.14 What is subcooling of refrigerant and its effects in vapour compression cycle?
- Q.15 Write short note on superheated compression and the advantage of it.
- Q.16 Explain the construction and working of vapour absorption cycle.
- Q.17 Explain the function of heat exchanger and rectifier in actual vapour absorption cycle.
- Q.18 Explain the effect of varying pressure on COP of vapour compression cycle.

SECTION-C

Note: Long answer type questions. Attempt any one question out of two questions. $(1 \times 10 = 10)$

- Q.19 Give the properties of a good or ideal refrigerant.
- Q.20 A refrigerating machine working on reversed carnot cycle consumes 4KW for producing refrigerating effect of 800 kJ/min at -35 degree centigrade. Find
- The coefficient of performance
 - The temperature of heat sink (higher)

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1st Sem, Level 5 / DVOC (Ref. & Air Cond.)

Subject : Basics of Refrigeration

Time : 2 Hrs.

M.M. : 50

SECTION-A

Note: Very short questions. Attempt all ten questions. $(10 \times 1 = 10)$

- What is the Unit of refrigeration and its formula?
- What is dry ice?
- Define COP.
- What is ideal cycle in refrigeration and why?
- What is dry compression?
- Name the processes in Bell Coleman cycle.
- Define refrigeration.
- What are secondary refrigerants?
- What is the principle of thermo-electric refrigeration?
- Define latent heat as of refrigerant in evaporator?

SECTION-B

Note: Short answer type questions. Attempt any six questions out of eight questions. $(6 \times 5 = 30)$

- Q.11 What are conditions of COP for its maximum value?

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