No. of Printed Pages : 2
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188451

DVOC (Level 5)

Subject : (5.GV.01) Basics of Refrigeration

Time : 2 Hrs. M.M. : 50

SECTION-A

Note: Very short questions. Attempt all ten questions. (10x1=10)

Q.1 Define refrigeration effect.
Q.2 Define one ton of a refrigeration system.
Q.3 Name the basic process of vapour compression refrigeration system.
Q.4 Write the function of compressor in simple vapour compression system.
Q.5 Write any two advantages of vapour compression system.
Q.6 Define secondary refrigerants.
Q.7 Define azeotrope.
Q.8 Write the chemical formula of R-12 refrigerant.
Q.9 Name the Principal parts of simple vapour absorption system.
Q.10 Define refrigeration.

SECTION-B

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

Q.11 Explain steam jet refrigeration.

Q.12 Explain the simple vapour compression cycle with the help of neat sketch.
Q.13 Explain Bell-Coleman cycle of refrigeration.
Q.14 Write any five qualities of an ideal refrigerants.
Q.15 Write the characteristics of Ammonia (R-717) refrigerant.
Q.16 Write the principle of vapour absorption system.
Q.17 Explain the principle parts of a simple vapour compression refrigeration system.
Q.18 A carnot cycle machine operates between the temperature limits of 50° and -30° C. Determine the c.o.p. when it operates as:
I) a refrigerating machine
ii) a heat pump

SECTION-C

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

Q.19 Explain with the help of neat diagram theory and mechanism of domestic Electrolux refrigeration system.
Q.20 Classify the primary refrigerants and explain in details.