

SECTION-B

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

- Q.11 Briefly describe the working of typical vapor compression refrigeration cycle with the help of diagram.
- Q.12 What is peltier effect? How it is utilized in cooling system?
- Q.13 Make p-V diagram of reversed Carnot cycle and briefly described it.
- Q.14 Write short note on multistage compression equipment used for refrigeration.
- Q.15 Make a list of limitations of reversed carnot cycle.
- Q.16 Define primary and secondary refrigerant with examples.
- Q.17 Write short note on the refrigerated transport.
- Q.18 Define comfort and industrial air conditioning.

SECTION-C

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

- Q.19 Describe in detail the desirable properties of refrigerants.
- Q.20 Describe the various types of air conditioning.

No. of Printed Pages : 2

Roll No.

189253

**2nd Sem. / (DVOC) Food Processing
Subject : Food Refrigeration and Supply Chain**

Time : 2 Hrs.

M.M. : 50

SECTION-A

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

- Q.1 Define coefficient of performance (COP) for refrigeration system.
- Q.2 Define refrigeration capacity.
- Q.3 What is function of condenser in typical vapor compression refrigeration cycle?
- Q.4 Name the principle on which thermoplastic cooling system works.
- Q.5 How many isothermal processes are involved in reversed Carnot cycle.
- Q.6 In T-s diagram what is the full form of T-s
- Q.7 Give the symbol to represent the refrigerant.
- Q.8 Define azeotropes.
- Q.9 What is the ratio of salt to be added to water in making a brine solution for block ice plant?
- Q.10 Give the full form of GPS system in transportation.