

Roll No

AU/ME-803 (GS)
B.E. VIII Semester Examination, June 2020
Grading System (GS)
Refrigeration and Air Conditioning
Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. Define "Refrigeration" and "One ton of refrigeration".
OR
Describe briefly the simple aircraft refrigeration system.
2. Discuss the effects of the following on the performance of a vapour compression system
 - i) Effect of suction pressure
 - ii) Effect of superheating
 - iii) Effect of subcooling of liquid
3. State the advantages of vapour compression refrigeration system over air refrigeration.
4. Explain thermodynamic and chemical properties of refrigerants.
5. What is COP? Also explain various application of refrigeration.
6. Define specific humidity and relative humidity.
7. Explain with a neat sketch a Boot strap cycle of air refrigeration.
8. Write short notes on any two:
 - a) Steam jet refrigeration
 - b) Nomenclature of refrigerant
 - c) Advantages of multi pressure system
 - d) Comfort conditions
