



# NARSIMHA REDDY ENGINEERING COLLEGE

## UGC AUTONOMOUS INSTITUTION

Maisammaguda (V), Kompally - 500100, Secunderabad, Telangana State, India

UGC - Autonomous Institute  
Accredited by NBA & NAAC with 'A' Grade  
Approved by AICTE  
Permanently affiliated to JNTUH

### UNIT-I

UNIT-I				
S No	Question	Bloom's Taxonomy level	Co's	Po's
1	Define the unit of refrigeration.	Understand	Co1	Po1,po2
2	What are the applications of refrigeration?	Remember	Co1	Po1,po2
3	Differentiate refrigerator and heat pump.	Remember	Co1	Po1,po2
4	What are the processes involve in reversed Carnot cycle?	Remember	Co1	Po1,po2
5	What are the limitations of reversed Carnot cycle?	Remember	Co1	Po1,po2
6	What do you mean by temperature limitation in refrigeration cycle?	Understand	Co1	Po1,po2
7	Define COP of refrigerator.	Remember	Co1	Po1,po2
8	What is significance of Mach number on aircraft refrigeration system.	Understand	Co1	Po1,po2
9	What is ramming process?	Understand	Co1	Po1,po2
10	What is the ram efficiency?	Understand	Co1	Po1,po2
11	How is ideal reversed Carnot cycle modified to result in Bell Column cycle?	Remember	Co1	Po1,po2
12	What are the factors to be considered for the Adoption of are refrigeration system for an aircraft?	Understand	Co1	Po1,po2
13	Explain the Boot strap refrigeration system with a schematic and cycle diagram. Derive the expression for the C.O.P. of Bell Column cycle.	Understand	Co1	Po1,po2
14	Differentiate open and dense air refrigeration cycle	Remember	Co1	Po1,po2