

## **SYLLABUS – THEORY**

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1. Fundamental of Refrigeration & Air Conditioning
2. Heat and Temperature
3. Pressure and Energy
4. General Refrigeration
5. Types of Refrigeration
6. Refrigeration Brief
7. Actual Refrigeration cycle
8. Pressure cycle (H.P, L.P. side)
9. Temperature cycle (H. T., L.T. Side)
10. Complete Cycle (H.P., H.T. side, L.P., L.T., side)
11. Parts of cycles
12. Compressor – (Domestically and Commercial)
13. Condenser - (types of Condenser)
14. Explain device – (6 Types)
15. Evaporator
16. Electrical – Introduction
17. Fundamentals of electrical
18. Wring Fundamentals ( I phase , III phase)
19. Electrical switches, starters, Basic Motors and it's types
20. Refrigerator & Air conditioner, its Controlling devices
21. Thermostat (full details)
22. Relay (Potential, current coil, soil state Relay)
23. Float switches
24. Ball switches
25. Pressure cutout (H. P. & L.P. and Duel)
26. Electrical Controller & manual Controller
27. Bimetal thermo, timer, Electrical fuse
28. Properties of Air
29. Phycrometric chart
30. Air containers Basics

31. Window, Split, Air conditioners, Caste model, Wall mounted, Sealing mounted.
32. Packaged Air conditioners
33. Central Plant Air conditioners
34. Loader & unloaded
35. Lubricants and oil pumps
36. VRF & VLC Systems
37. Inverter Air conditioners
38. Remote & Circuit Boards
39. Carpenter work & Introduction
40. Lathe works & Introduction
41. Electrical & Introduction
42. Welding & Introduction
43. Fitter work & Introduction
44. Introduction of Insulation material
45. Gas & properties
46. Water cooler, Bottle cooler, Deep freezer, walking cooler.
47. Churner, cold room, cold storage., etc
48. Thermodynamic process
49. Hot gas systems (Reverse Cycle)
50. Summer A/C & winter A/C
51. Duct & Dazine Introduction – only
52. Dehumidifier & humidifier