

Note:

- 1) Question no. 1 is compulsory.
- 2) Attempt any **three** questions out of the remaining **five** questions.
- 3) Clearly mention the assumptions made if any.
- 4) Use of Refrigerant table, P-h chart, Friction chart, Psychrometric chart and Steam table is permitted.

Q.1 Answer any Four of the following:

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- a) Explain Standard VCR cycle with schematic, P-h & T-S diagrams.
- b) Explain the terms SHF, RSHF, GSHF and ERSHF.
- c) Define refrigerant and classify refrigerant giving examples of each.
- d) Define By-Pass Factor of a coil. Express it for heating & cooling coil. Also define efficiency of coil.
- e) Write short note on Thermal Comfort
- f) Define: Specific Humidity, Relative Humidity, DBT, WBT & DPT

Q.2 a) A boot strap cooling system of 10 TR Capacity is used in an aeroplane. The ambient air temperature and pressure are 20 °C & 0.85 bar respectively. The pressure of air increases from 0.85 bar to 1 bar due to ramming action of air. The pressure of air discharged from the main compressor is 3 bar. The discharge pressure of air from the auxiliary compressor is 4 bar. The isentropic efficiency of each compressor is 80%, while that of turbine is 85%. The heat exchanger effectiveness for both the heat exchanger is 60%. Assuming ramming action to be isentropic, the required cabin pressure of 0.9 bar and temperature of air leaving the cabin not more than 20 °C. Find: Power required to operate the system, COP of system.

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b) Explain following Psychrometric Processes with neat sketch.

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- (i) Heating & Humidification. (ii) Cooling & Dehumidification. (iii) Sensible Heating
(iv) Sensible Cooling

Q.3 a) A Vapour Compression Refrigeration System using R-12 works between -25°C and 40°C as evaporator & condenser temperature respectively. Using P-h chart, Determine;

1. COP.
2. Mass of Refrigerant per TR.
3. Piston Displacement per TR using Volumetric Efficiency = 83%.
4. Heat Rejected in the Condenser per TR.
5. Ideal COP.

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b) Enlist the types of Air Cooling Systems. Explain Simple Air Cooling System with T-S diagram, processes involved in the cycle & application.

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