



DIPLOMA IN REFRIGERATION & AIR CONDITIONING

CENTRALIZED QUESTION BANK

1221234340 - HVAC CAD Drawing

**DIRECTORATE OF TECHNICAL
EDUCATION GOVERNMENT OF
TAMILNADU**

DIPLOMA END SEMESTER / YEAR EXAMINATION – 2025

Course: Refrigeration & Air Conditioning

Subject : HVAC CAD Drawing

QP Code : 1221234340

Semester : 4

Time : 3 Hours

Date :

Session:

Max Marks: 100

Question Bank

Answer the following Questions

- A Draw any 3 R&A/C components symbols using CAD given within the bracket - (FCU,AHU,chiller,pump,fan,coolingcoil,compressor,silencer,muffler,airfilter, drier, condenser, thermostat, dx unit, cooling tower, gate valve, globe valve, solenoid valve, butterfly valve, check valve)
- B Draw any 3 basic R&A/C components symbols using CAD given within the bracket . (HVAC duct work symbols : - straight duct, bend, branch duct, junction, y junction, 3-way junction, beveled junction, miter bend, transition, offset transition, diffuser supply & return, duct heater, flexible connection, flexible connector, damper, VAV box, linear diffuser supply & return, floor register, louver opening, air grill)
- C Draw any 2 of the following connection drawing using CAD
(i) Compressor connection drawing
(ii) Condenser connection drawing
(iii) Evaporator connection drawing
- D Draw any 1 of the following Process drawing
(i) Split ac
(ii) Typical duct drawing for a hall
(iii) Chillers
(iv) Cooling tower
(v) Typical central ac plant

Allocation of Marks

Sl. No	Description	Marks
1	Drawing of basic R&A/C components (Any3)(Part A)	10
2	Drawing of basic R&A/C components (Any3)(Part B)	10
3	Connection Drawing (Any two)(Part C)	15
4	Process Drawing (Any one)(Part D)	25
5	Written test (theory portions)	30
6	Viva voce	10
Total		100