



DAS-161001010605

Seat No. _____

B. Architecture (Sem. VI) Examination

May - 2022

Environmental Science & Services-IV

Time : 2 Hours]

[Total Marks : 50

- 1 Factors considered for the calculating of Heat Loads in a building. 10

OR

Explain difference between Constant Air Volume and Variable Air cooling system. 10

- 2 Explain with sketch refrigeration cycle in Split AC with neat sketch and what care have to take while locating indoor and outdoor units. 10

OR

What is zoning and what are the aspects we consider from HVAC zoning point while designing a Mall. 10

- 3 Explain with sketch (any 5) 5

(1) AHU (2) Diffuser (3) Thermostat
(4) Supply Air Duct (5) Dampers (6) Cooling Tower
(7) Compressor

- 4 Explain any two. 10

(a) Dumb-waiter
(b) Criss-Cross type Escalator
(c) Design of Machine Room
(d) Design criteria for lift lobby

- 5** Explain any two. **5**
- (a) Variable Absorbers
 - (b) Reverberation time
 - (c) Decibel Scale
 - (d) Sound foci and Dead spot

- 6** Explain the Design Criteria for good seating arrangement in the auditorium. **10**

OR

- Environmental Sound Control Measures in the city. **10**
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