



Seat No. _____

HAB-161001010605

B. Architecture (Sem. IV) Examination

May - 2023

Environmental Science & Services-IV

Time : 2 Hours / Total Marks : 50

- 1 Explain any two. 10
- (a) Stretcher Lift
 - (b) Capsule Elevator
 - (c) Design criteria for Lift lobby
 - (d) The door of an Auditorium

- 2 Explain any two. 5
- (a) Porous Absorbers
 - (b) Reverberation time
 - (c) Structure-borne Sound
 - (d) Echo and Flutter Echo

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

OR

- 3 Design Criteria for the Shape, Size and Interior Section of the auditorium. 10

- 4 Explain the properties of atmospheric air shown on the Psychrometric Chart. 10

OR

- 4 Explain the difference between Constant Air Volume and Variable Air Volume cooling systems. 10

- 5** Explain the refrigeration cycle in Window AC with a neat sketech **10**
and what care must take while locating the unit in the room.

OR

- 5** What is zoning and what are the aspects we consider from the **10**
point of view of HVAC zones and systems while planning/designing
a bank?

- 6** Explain with Sketch : (any 5) **5**
- (1) Variable Absorber
 - (2) Diffuser
 - (3) AHU
 - (4) Refrigerant
 - (5) Dampers
 - (6) Cooling Tower
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