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National Institute of Technology, Hamirpur (HP) Department of Architecture

End Semester Exam

Branch: Architecture

Subject: Building Services-III

Time: 3:00 Hours

Semester: 6th Semester

Subject Code: AR-323

Maximum Marks: 50

Note: All questions are compulsory.

Illustrate your answers with sketches wherever necessary.

Assume suitable data, if necessary.

(1. (a) What are the basic principles of designing ventilation of a building?

(b) How to estimate the minimum ventilation rate in natural ventilation system.

(5+5=10)

- Q2. (a) What are the different types of mechanical air conditioning system? Explain in detail the principle of central air conditioning systems.
 - (b) Elaborate the various thumb rules for calculating the load of the AC systems and the space required for different loads. (5+5=10)
- Q3. What are the different types of internal and external firefighting systems? Explain sprinkler system in detail along with its classification. (10)
- Q4. Elaborate any 10 construction aspects of elevators.

(10)

Q5. (a) Explain the different types of lifts?

(b) Draw the typical plan of any one of the type of lift well showing the machine room. (5+5=10)

.....End of Question Paper.....