

Neefer Kapoor

28/11/2022
(11) (5) (49)

Roll No.....

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

End Semester Examination

Branch: Architecture
Subject: Climate and Built Environment
Time : 3:00 Hours

Semester: 3rd
Subject Code: AR-215
Maximum Marks: 50

Instruction:

- Use Illustrations wherever required. Illustrations carry due marks.
- Answer all questions.

Q1. Write short notes on the following.

1. Tilt of Earth axis
2. Koppen Climate Classification

(5+5=10)

Q2. Explain in detail any five global climatic factors and how they affect the climate of a place. Support your answer with suitable sketches. (10)

Q3. What is a psychometric chart and how it helps in designing passive buildings in different climatic conditions. (10)

Q4. Compare the design features of the traditional buildings in any two climatic zones in India specifically with respect to site microclimate, building form and massing, building envelope and building finishes. (10)

Q5 What are the different types of winds and how these winds are formed because of the tilt of Earth's axis and Solar radiation. Support your answer with suitable sketches. (10)

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