

- Q.24 Describe five major climatic zones of India in terms of their key characteristics. List down at least one design strategy for each climatic zone.
- Q.25 Explain internal and external sun protection devices.

No. of Printed Pages : 4

Roll No.

220233

**3rd Sem / Branch : Architectural Assistantship
Sub.: Climatology**

Time : 3Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 The amount of moisture present in the atmosphere is called?
- a) Wind b) Humidity
c) Temperature d) Atmospheric pressure
- Q.2 Landscaping of an area can control?
- a) Climate b) Noise
c) Pollution d) All of these
- Q.3 How many climatic zones are there in India as per NBC?
- a) Three b) Four
c) Five d) Six
- Q.4 What does the concentric circles in a solar chart represent?
- a) Azimuth angle
b) Altitude angle

- c) Horizontal shadow angle
- d) Vertical shadow angle

Q.5 Micro-climate refers to :

- a) Tropical Climate
- b) The tropical climate where micro-organisms grow fast
- c) Climate created for small areas
- d) Climate created for large areas

Q.6 Which instrument is used to measure wind speed?

- a) Anemometer b) Pyranometer
- c) Heliodon d) Theodolite

SECTION-B

Note: Objective type questions. All questions are compulsory. (6x1=6)

Q.7 Define passive solar heating.

Q.8 What do you mean by Ecology?

Q.9 What is the need of studying climatology?

Q.10 Define composite climate.

Q.11 Define prevailing winds.

Q.12 What do you understand by the term ‘atmospheric pressure’?

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 What is Sun path diagram? Explain with the help of diagram.

Q.14 What do you understand by climate change? List down two factors which contribute to climate change.

Q.15 Briefly explain noise and air pollution.

Q.16 Write a note on macroclimate.

Q.17 Briefly explain the orientation of a building.

Q.18 What do you understand by solar passive design?

Q.19 Describe human thermal comfort and how is it an essential function of a building?

Q.20 Describe any two landscape elements which can be used to control micro-climate.

Q.21 Define global warming and its impact on environment.

Q.22 What is the role of cross ventilation in a room?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain the use of any two building materials with respect to climate.