

- Q.17 Differentiate between micro and macro climate.
- Q.18 Write a note on Hot & Humid Climate.
- Q.19 Explain artificial method of ventilation.
- Q.20 Draw any two types of louvers.
- Q.21 Explain bio-climate chart.
- Q.22 Write down the objectives of solar passive design.

#### SECTION-D

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

- Q.23 What are the various building materials and their use with respect to climate? Explain.
- Q.24 Write short note on the followings:-
- a) Different climatic zones
  - b) Orientation of buildings with respect to climate elements
- Q.25 What is the relation of climate and comfort? Explain in detail.

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#### 3rd Sem / Architectural Assistantship

#### Subject:- Climatology

Time : 3Hrs.

M.M. : 60

#### its SECTION-A

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

- Q.1 In hot climate, what is design feature can help reduce solar heat gain in a building?
- a) A green roof
  - b) External shading devices
  - c) A reflective roof surface
  - d) Underground parking
- Q.2 The tropical climate which consists of heat waves hot winds and low humidity comes under which climate conditions?
- a) Hot & humid
  - b) Hot & dry
  - c) Cool & dry
  - d) Rainy

Q.3 From the given climatic conditions which have its worst effects on the building structure in India.

- a) Dust storm                      b) Humidity
- c) Heavy rain                      d) Hot summer days

Q.4 Which building material has high seismic resistance and flexibility of nailed joints?

- a) Bamboo                      b) Timber
- c) Ply                      d) Husk

Q.5 Which city of Maharashtra experiences hot & dry climatic conditions?

- a) Nagpur                      b) Hyderabad
- c) Mumbai                      d) Nashik

Q.6 What is the main cause of seasons on Earth?

- a) The tilt of earth's axis
- b) The shape of earth's orbit
- c) The distance of earth from the sun
- d) The size of the earth

## SECTION-B

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

Define the following:

Q.7 Precipitation

Q.8 Regional climate

Q.9 Name a wind protection device.

Q.10 Sun path

Q.11 Micro climate

Q.12 Macro climate

## SECTION-C

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

Q.13 Explain the basic elements of climatology.

Q.14 Describe orientation with respect to wind.

Q.15 Write a short note on global warming.

Q.16 List the features of cold climate.