

- Q.26 Which are the five climatic zones in India?
- Q.27 How should the building be oriented with respect to the solar path?
- Q.28 What are the various causes of Noise pollution?
- Q.29 What are the primary air pollutants?
- Q.30 Which landscaping elements can be used to cool down the microclimate?
- Q.31 Write a short note on the thermal comfort zone.
- Q.32 Differentiate between cold and Warm-Humid climate.
- Q.33 How does natural daylight affect the indoor environment of a building?
- Q.34 What is Global Warming? How does it affect life on earth?
- Q.35 What is the role of building materials in construction of a climate-responsive building?

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Draw a bioclimatic chart showing the elements of climate and the comfort zone.
- Q.37 List down the various components of climate. Describe how these components can be used to design a climate-responsive building?
- Q.38 What are the different types of sun shading devices? Describe how these can be used to protect from direct sunlight and provide thermal comfort inside a building?

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3rd Sem / Architectural Assistantship Subject:- Climatology

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The natural place where the organisms or communities live is called:
- a) Habitat b) Niche
c) Biome d) Dome
- Q.2 Earth revolves around the sun in:
- a) 364 days b) 364.25 days
c) 365 days d) 365.25 days
- Q.3 The state of atmosphere regarding temperature, sunshine, wind and rain etc. at a place during any particular time is called:
- a) Climate b) Meteor
c) Weather d) Atmosphere
- Q.4 Which of the following is not a sun shading device:
- a) Awning b) Chajja
c) Trellis d) Sky light

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- Q.5 The humidity of air at a particular location depends upon:
- Distance from sea
 - Temperature
 - Weather
 - All of the above
- Q.6 Combination of horizontal sun shading device with vertical shading device is known as:
- Cantilever
 - Curtain
 - Egg crate
 - sun screen
- Q.7 Lion is an example of:
- Abiotic component
 - Biotic component
 - Herbivorous
 - All of the above
- Q.8 Cantilevered projections are more useful to protect solar radiations from:
- North
 - South
 - East
 - West
- Q.9 Which is the most prevailing climatic zone in North India including Jammu & kashmir, Ladakh, Himachal, Haryana and Uttarakhand:
- Cold
 - Warm-Humid
 - Composite
 - Temperate
- Q.10 Which of the following zone is generally the most polluting zone:
- Recreational
 - Institutional
 - Industrial
 - Residential

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SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define Climate.
- Q.12 Define Relative Humidity.
- Q.13 Define Ecology.
- Q.14 Define Abiotic component of an ecosystem.
- Q.15 Define Monsoon.
- Q.16 Define Snowfall.
- Q.17 Define Bioclimatic chart.
- Q.18 Define Wind energy.
- Q.19 Define Noise.
- Q.20 Define Thermal insulation.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Draw the earth's orbit around the sun and earth's axial tilt angle to show the summer and winter seasons?
- Q.22 What do you mean by horizontal shading device and vertical shading device?
- Q.23 Differentiate between the macro-climate and micro-climate.
- Q.24 What is a sun path diagram?
- Q.25 Write a short note on Climate-responsive Building Design.

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