

- Q.27 How should the building be oriented with respect to the wind?
- Q.28 Write a short note about the types of Environmental Pollution.
- Q.29 What is a wind rose diagram? Explain with the help of suitable examples.
- Q.30 How landscape elements can be used for micro climate control.
- Q.31 Write a short note on the bioclimatic chart.
- Q.32 What is climate change and its effects.
- Q.33 What do you mean by comfort zone?
- Q.34 What are the various components of natural daylight.
- Q.35 What are the characteristics of vernacular architecture in a composite climate?

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Describe the various climatic criterias that we need to consider for any site selection and building design in detail.
- Q.37 Explain the causes and effects of air pollution in our day to day life.
- Q.38 Explain the properties of various building materials and techniques useful in creating a green building in a Hot-dry climate.

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3rd Sem / Arch Subject:- Climatology

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Solar equinox occurs on:
- 20 March and 23 September
 - 21 June and 21 December
 - 21 May and 21 January
 - 20 May and 23 February
- Q.2 Wind speed can be measured using:
- Aerometer
 - Anemometer
 - Hygrometer
 - Wind vane
- Q.3 Climate of a place doesn't depends upon:
- Altitude
 - Latitude
 - Longitude
 - Distance from ocean
- Q.4 Which of the following is a natural sun shading device:
- Window
 - Chajja
 - River
 - Tree

- Q.5 Hot air always moves:
- a) Upward b) Downward
 - c) Leftward d) Rightward
- Q.6 Which of the following is not a type of precipitation :
- a) Drizzle b) Rain
 - c) Sandstorm d) Snowfall
- Q.7 How many climate zones are there in India as per ECBC:
- a) 2 b) 5
 - c) 10 d) 26
- Q.8 Vertical shading devices are more useful to protect solar radiations from:
- a) North b) South
 - c) West d) Top
- Q.9 Haryana is in which climatic zone of India:
- a) Hot-Dry b) Warm-Humid
 - c) Composite d) Temperate
- Q.10 Global sum of all ecosystems is called:
- a) Atmosphere b) Biosphere
 - c) Biology d) Ecology

SECTION-B

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

- Q.11 Define humidity.
- Q.12 Define Weather.
- Q.13 Define Ecosystem.
- Q.14 Define Microclimate.
- Q.15 Define Daylight.
- Q.16 Define Rainfall.
- Q.17 Define the thermal comfort zone.
- Q.18 Define Solar path.
- Q.19 Define Air pollution.
- Q.20 Define Insulating Material.

SECTION-C

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

- Q.21 What are the different climatic zones present in India?
- Q.22 What do you mean by solar altitude and azimuth angles?
- Q.23 Differentiate between the weather and the climate.
- Q.24 What are the different elements of climate.
- Q.25 Write a short note on Solar Passive Design.
- Q.26 Name any five Building Insulation Materials.