

- 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.

No. of Printed Pages : 4 180231/120231/030231
Roll No.

**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 b) Anemometer
 - Hygrometer d) Wind vane
- Q.3 Climate of a place doesn't depends upon:
- Altitude b) Latitude
 - Longitude d) Distance from ocean
- Q.4 Which of the following is a natural sun shading device:
- Window b) Chajja
 - River d) Tree

Q.5 Hot air always moves:

- a) Upward b) Downward
- c) Leftward d) Rightward

Q6 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

Q8 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.