

- Q.27 What is thermal comfort zone?
 - Q.28 Write short note on Macro Climate.
 - Q.29 Explain the climatic zones of India.
 - Q.30 What are the preventive measures to control air pollution?
 - Q.31 Explain the characteristic of hot and humid climate.
 - Q.32 What is sun path diagram and why it is used?
 - Q.33 Write briefly about the use of brick as a building material with respect to climate.
 - Q.34 Explain the relationship of climate and comfort.
 - Q.35 What are the main cycles in eco system?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the design features of buildings in hot and dry climate.

Q.37 Explain with sketches:

 - a) Wind catchers b) Shading devices

Q.38 Describe the sun and earth relationship. Explain the cause for seasons.

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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 Place close to the equator have a _____ temperature
a) Higher b) lower
c) Medium

Q.2 _____ is changing all the time..
a) Weather b) Climate
c) Humidity d) None of these

Q.3 Which of the following places has coldest climate even during summer.
a) Mussoorie b) Kanpur
c) Allahabad d) Delhi

Q.4 Walls with high thermal inertia are suitable in which type of climate
a) Hot-dry b) Hot-humid
c) Temperate d) Cold

Q.5 Wind generally blows from areas of
a) Low to high pressure
b) low to moderate pressure
c) High to low pressure
d) high to moderate pressure

- Q.6 The tropical climate which consists of heat waves hot winds and low humidity comes under which climatic conditions?
 a) Hot-Wet b) Hot-dry
 c) Cool-dry d) Rainy
- Q.7 Which of the following is not used in a passive solar heating/cooling system?
 a) Building walls b) Building roofs
 c) Air conditioners d) Building floors
- Q.8 Which part of a house receives majority of solar radiation?
 a) Roof b) Side walls
 c) Floor d) Doors
- Q.9 A building with excessive glass cover results _____
 a) in freezing
 b) pleasant temperature within the building
 c) damages the building material
 d) in overheating
- Q.10 If a material is able to absorb, store and release a significant amount of heat it is said to have a high _____
 a) thermal score b) thermal mass
 c) active solar mass d) passive solar mass

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 A “cool roof” uses reflective surfaces. (True/False)
- Q.12 Who requires maximum energy? Primary consumer/ Primary producer)

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- Q.13 _____ gas is present in the air in maximum amount.(Oxygen/Nitrogen)
- Q.14 The yellowness of the Taj Mahal is an effect of _____.(Allergens/Acid rain)
- Q.15 _____ is a renewable source of energy? (Wind/Coal)
- Q.16 Increased levels of air pollution results in _____ (respiratory problems / soil erosion)
- Q.17 Noise levels at construction sites can be controlled using proper construction planning and scheduling techniques. (True/False)
- Q.18 When the sun is directly at the top, its referred as _____ (Zenith /Azimuth)
- Q.19 _____ is a type of climber.(Ashoka tree / Money plant)
- Q.20 Solar altitude is also called as _____ (Azimuth angle /Zenith angle)

SECTION-C

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

- Q.21 Explain the characteristic of hot and humid climate.
- Q.22 Explain Global warning, its causes and effects.
- Q.23 Describe ecology.
- Q.24 What is Solar Passive Design?
- Q.25 Name the two angles that determine the position of sun with respect to a given point on the surface of the earth along with neat sketches.
- Q.26 What do you know about Longitude and Latitude?

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