

- Q.28 Describe the various methods of roof insulation
 Q.29 What is Trombe Wall ?
 Q.30 What are the effects of noise pollution?
 Q.31 Give the differences between Micro and micro climate
 Q.32 What are the various functions of ventilation ?
 Q.33 What do you Known about Longitude and latitude?
 Q.34 What is thermal comfort zone?
 Q.35 Explain Global warming, its causes and effects

SECTION-D

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

- Q.36 Describe briefly on five major elements of climate
 Q.37 Describe macroclimate and microclimate with examples
 Q.38 List and describe various types of shading devices.

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Subject:- CLIMATOLOGY

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 How long does Earth's revolution around the sun take?
 a) 1 day b) 1 month
 c) 365 days d) 2 year
 Q.2 The.....is required to control dust and other impurities in the air.
 a) Circulation b) Sanitation
 c) Ventilation d) Purification
 Q.3 The tilting of the Earth is responsible for.....
 a) Change of days b) change of seasons
 c) Change of sunrays d) none of the above
 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 The Trombe wall is _____.
 a) A fire wall
 b) Vented on top and bottom
 c) A glass covered thermal mass wall
 d) Option b and c

- Q.6 The place located near the sea experiences the.....
a) Moderate climate b) Dry climate
c) Polar climate d) Tropical climate
- Q.7 Which of the following is not a major greenhouse gas?
a) Ozone b) Water vapour
c) Methane d) Carbon dioxide
- Q.8 _____ is changing all the time
a) Weather b) Climate
c) Humidity d) None of these
- Q.9 The tropical climate which consists of heat waves hot winds and low humidity comes under which climatic condition ?
a) Hot-wet b) Hot-dry
c) Cool-dry d) Rainy
- Q.10 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

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 The trees that do not shed their leaves are _____(Evergreen/Deciduous)
- Q.12 Motion of the earth on its axis in about 24 hours is called _____(revolution/rotation)
- Q.13 _____ is a renewable source of energy? (Wind/ Coal)

- Q.14 _____ is the source of light on the earth (Sun/ Moon)
- Q.15 The coldest region on earth is the _____(tropical region/ Polar region)
- Q.16 The layer of air which surrounds the earth is _____(atmosphere/ Weather)
- Q.17 When do equinoxes occur on the earth?
(September 23/ June 21)
- Q.18 When the sun is directly at the top, it is referred as _____(Zenith/ Azimuth)
- Q.19 _____ gas is present in the air in maximum amount
(oxygen/ Nitrogen)
- Q.20 A "cool roof" uses reflective surfaces. (True/ False)

SECTION-C

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

- Q.21 Explain the relationship of climate and comfort
- Q.22 What is Bio-Climatic chart and why it is used?
- Q.23 What are the main cycles in eco system ?
- Q.24 Explain the characteristics of hot and humid climate.
- Q.25 Explain cross ventilation
- Q.26 Explain the climatic zones of India.
- Q.27 What is Solar Passive Design?