

B.Arch. Third Semester (Architectural Engineering) (CGS)

10022 : Applied Climatology - I

03 AR 04

P. Pages : 1

Time : Three Hours



AV - 2658

Max. Marks : 80

- Notes :
1. All question carry marks as indicated.
 2. Question No. **one** is compulsory.
 3. Due credit will be given to neatness and adequate dimensions.
 4. Illustrate your answer necessary with the help of neat sketches.

1. Explain with sketches the types of climatic factors responsible to create Micro and Macro climatic conditions. **20**
2. a) Explain with sketches the importance of Global trade wind patterns. **10**
b) Describe with neat sketches the tropic of cancer and tropic capricorn. **10**

OR

3. a) Explain the Human comfort through body metabolism with the help of sketches. **11**
b) Explain with the help of sketches heat gain and heat loss. **9**
4. a) Explain the importance of climatic study for planning and design of spaces. **10**
b) Explain with the help of neat sketch the psychometric chart. **10**

OR

5. a) Describe the importance of Temperature and it's data collection. **10**
b) Describe the importance of Humidity and its data collection. **10**
6. a) Explain the role of water bodies to generate comfortable living conditions. **10**
b) Explain through sketches the various atmospheric effects on building surfaces. **10**

OR

7. Explain the Hot and dry climate with description and relative sketches. **20**
