

SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

SEMESTER END EXAMINATIONS (SUPPLEMENTARY), JUNE - 2016

B.ARCH, I YEAR II SEMESTER**APPLIED CLIMATOLOGY (10110207)****Maximum Marks – 50****Time – 2.00 Hours***a) Answer any Two questions out of 1 to 4 questions.**b) Question No.5 is compulsory and answer any four out of six sub-questions.*

- Q1. a) What are the causes of thermal discomfort in buildings? Discuss with respect to tropical climates. (3x5=15M)
- b) Explain any 2 measures to achieve thermal comfort in buildings for tropical climates.
- Q2. Discuss about the building heat exchange processes. (15M)
- Q3. a) Write a short note on Cool day lighting. Explain with neat sketches. (10M)
- b) Compare and contrast 'Direct system' with 'Trombe wall system' with a neat sketch. (5M)
- Q4. What are the design principles to be followed for a building in hot and dry climate? Explain with neat sketches. (15M)
- Q5. Answer any four of the following: (4x5=20M)
- Zenith angle and altitude angle
 - Orientation for good ventilation
 - Diurnal Range
 - Day light factor
 - Stack effect
 - U – value
