

SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

SEMESTER END EXAMINATIONS (REGULAR), MAY-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 objectives of good day lighting?
b) Explain day lighting strategies for hot & dry (3x5=15M) climate.
c) Explain any 2 Passive lighting strategies.
- Q2. Explain air movement in and around the buildings (15M) with neat sketches.
- Q3. a) Write a short notes on periodic heat flow with (5M) neat sketch.
b) Describe any 2 passive solar strategies. (10M)
- Q4. What are the design principles to be followed for (15M) buildings in warm – humid climate? Explain with neat sketches.
- Q5. Answer any four of the following: (4x5=20M)
a) Sol-air temperature
b) U-value
c) Sky Component
d) Evaporative Cooling
e) Declination Angle
f) Relative Humidity
