SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

B.ARCH, I YEAR II SEMESTER EXAMINATION (REGULAR), MAY-2015

BUILDING SCIENCE AND SERVICES-CLIMATOLOGY AND THERMAL CONTROL (BS-2)

Maximum Marks - 50

14

Time - 2.00 Hours

- a) Answer any Three questions
- b) Question No. 5 is compulsory.
- c) Scientific Calculator is allowed.
- Q1. Explain the role of sun angles in designing shading (15) devices.
- Q2. What is Psychometric chart and explain various (15) components involved with neat sketches?
- Q3. Elaborate the heat exchange process through the building (15) and how the heat gain and heat loss can be calculated.
- Q4. What are the different design guidelines for attaining (15) Natural ventilation?
- Q5. Write short notes on any four of the following. $(4 \times 5=20)$
 - a) Green concept.
 - b) Heat Insulation.
 - c) Solar Azimuth.
 - d) Zenith Angle.
 - e) Earth Berm Structure.
 - f) Earth Air tunneling.