

# SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

SEMESTER END EXAMINATIONS (REGULAR) NOVEMBER - 2016

M. ARCH I YEAR I SEMESTER

## CLIMATE AND BUILT FORM RESPONSES (10210102)

Maximum Marks – 50

Time –2 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. Describe the natural operation system of Trombe wall in Vijayawada with neat sketches. (15M)
- Q2. What is Solarium? How does it function in heating of indoor air mass? Explain the design considerations to integrate Solarium in a school building at Shimla. (15M)
- Q3. Explain Rockbed storage system and its thermal behaviour for heating the buildings in 'cold and cloudy' regions of Leh. (15M)
- Q4. What is EAT and how does it function for composite climatic zone of Delhi region. (15M)
- Q5. Write short notes on any FOUR of the following: (4x5=20M)
- Climatic Zones of India
  - Sun angles & Shadow angles
  - Time lag and Thermal diffusivity
  - U-values and K-values
  - ERC in day lighting
  - TSI and comfort temperature

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