

No. of Printed Pages : 03

Roll No.

AA-263

**Master of Architecture
EXAMINATION, May 2017**

(First Semester)

(Re-appear Only)

SUSTAINABLE ARCHITECTURE

MARC-607

Climate Responsive Architecture in Tropics

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. All questions carry equal marks.

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P.T.O.

Unit I

1. Enumerate various elements of climate and what challenges these elements pose to architecture of Tropics. **15**
2. Write short notes on any *two* of the following :
 - (a) Climate Responsive design elements
 - (b) Climate data and its relevance in design of built-forms
 - (c) Micro climate site elements. **7.5×2=15**

Unit II

3. Define in detail 'comfort zone'. **15**
4. What are various physiological and environmental factors which act as a barriers in occupant comfort ? **15**

Unit III

5. Write short notes on the following :
 - (a) Thermal behaviour of buildings
 - (b) Heat flow calculation. **7.5×2=15**

6. Explain passive control strategies to be adopted in buildings. **15**

Unit IV

7. Explain Sun-path diagram. **15**
8. Describe the strategies to cut-off sun rays in buildings. **15**