

**Total No. of Questions : 09**

**Masters in Architecture (2013 & Onwards) (Sem.-2)**

## SUSTAINABLE ARCHITECTURE

**Subject Code : MACH-204**

**Paper ID : [A3203]**

**Time : 3 Hrs.**

**Max. Marks : 50**

**INSTRUCTION TO CANDIDATES :**

1. Attempt FIVE questions in all. Q-1 is compulsory.
2. Assume any missing data/dimension.

1. Write short notes on :
  - (a) Thermal comfort
  - (b) Role of Day lighting in Building Design.
2. Explain the principles and concepts of sustainability in Building design.
3. What are the various sustainable building materials available for construction of residential building?
4. How does Built form and orientation promote sustainability at site level?
5. Explain sustainability through examples from vernacular architectural techniques.
6. Explain current building technology methods in sustainability through examples from abroad. (Outside India)
7. Explain the role of waste water management in sustainability.
8. Write notes on :
  - (a) Indoor Air quality
  - (b) Ventilation and thermal control.
9. What are the basic principles to be kept in mind at design stage to achieve energy Conservation and sustainability?