

**Total No. of Pages : 01**

**Total No. of Questions : 06**

**Master in Architecture (2013 & Onwards) (Sem.-3)**  
**ADVANCED BUILDING SYSTEMS & TECHNOLOGIES**

**Subject Code : MACH-302**

**Paper ID : [72480]**

**Time : 3 Hrs.**

**Max. Marks : 50**

**INSTRUCTION TO CANDIDATES :**

1. Attempt FOUR questions in all selecting TWO from each UNIT.
2. All questions carry EQUAL marks.
3. Assume any missing data/dimension. Draw sketches where necessary.

## UNIT-I

- Q1. Explain the concept of modular co-ordination along with its applicability in present day architecture.
- Q2. Discuss Prefabrication in detail with its principles, application and disadvantages.
- Q3. Write in detail about advanced building materials being used in buildings today. Give suitable examples to support your answer.

## UNIT-II

- Q4. Enlist and explain briefly the typologies and applicability of various services and systems adopted in buildings.
- Q5. Maintenance considerations start right at the design stage of buildings. Discuss in detail by giving suitable examples.
- Q6. *“There is almost no limit to shapes of buildings, ranging from boxy to compound hybrid to organic and crystalline shapes.”* How does structure systems help in realizing the above statement? Explain in detail.