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**MANIPAL UNIVERSITY**  
**SECOND SEMESTER EXECUTIVE M.ARCH. (ADVANCED DESIGN)**  
**DEGREE EXAMINATION – MAY 2017**

**SUBJECT: TALL BUILDINGS – ELECTIVE I (ARM-606-E-1)**

Thursday, May 11, 2017

Time: 10:00 – 13:00 Hrs.

Max. Marks: 50

✍ **Answer any FIVE full questions.**

✍ **Illustrate with neat sketches and examples wherever required.**

1. Describe whether wind is a 'friend or a foe' in the design of tall buildings with relevant sketches.  
(10 marks)
2. Explain some of the foundation design of tall buildings with sketches.  
(10 marks)
3. What is a refuge floor? Explain the fire safety considerations in the design of tall buildings.  
(4+6 = 10 marks)
4. Briefly explain the green building technologies employed in the design of tall buildings.  
(10 marks)
5. Explain the various Structural systems used in the design of tall buildings.  
(10 marks)
6. Explain how tall buildings impact the skyline of cities with suitable examples.  
(10 marks)

