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**MANIPAL INSTITUTE OF TECHNOLOGY**

**MANIPAL**

*(A constituent institution of MAHE, Manipal)*

**VI SEMESTER B.TECH. (CIVIL ENGINEERING)**

**END SEMESTER EXAMINATIONS, APRIL/MAY 2018**

**SUBJECT: Building Code and Requirements [CIE 4001]**

**REVISED CREDIT SYSTEM**

**( / 04/ 2018)**

Time: 3 Hours

MAX. MARKS: 50

**Instructions to Candidates:**

- ❖ Answer ALL the questions.
- ❖ Missing data may be suitable assumed.

Q.No		Marks	CO
1A.	What are general building requirements for low income housing in rural areas?	3	1
1B.	Compare row housing and clusters.	3	1
1C.	What is fire rating? Comment on fire performance of various building materials	4	2
2A.	What is Pressurization of Staircases?	2	2
2B.	Explain the dynamic effects of wind on a structure	4	3
2C.	What is velocity profile? How does the topography influence the velocity profile?	4	3
3A.	What are the assumptions in earthquake resistant design?	3	3
3B.	What load combinations are to be considered for wind and earthquake resistant design of structures.	4	3
3C.	What is Framing of Thin Load Bearing Walls.	3	3
4A.	Describe plate load test. What is it used for?	4	4
4B.	What are the general considerations to be made while designing a raft foundation?	4	4
4C.	What are the Basic Plumbing Components of any building?	3	4
5A.	What is day light factor?	5	5
5B.	What is sensible heat and latent heat? How is the volume of air required to remove these heats calculated.	5	5