



VI SEMESTER B.TECH (CIVIL ENGINEERING)

END SEMESTER EXAMINATIONS, JUNE 2022

**SUBJECT: BUILDING CODE AND REQUIREMENTS [CIE 4052]**

**REVISED CREDIT SYSTEM**

( \_ / / 2022)

Time: 3 Hours

Max. Marks: 50

**Instructions to Candidates:**

- ❖ Answer ALL the questions
- ❖ Missing data may be suitably assumed

Q.No		Marks	CO
1A.	Explain the requirements of a habitable room in low income housing in urban area.	3	1
1B.	Explain the Special requirements of cluster planning for housings.	4	1
1C.	List the requirements for low income housing in rural areas	3	1
2A.	What is meant by dry riser system? With a neat sketch explain pressurization technique	4	2
2B.	Explain general exit requirements in case of fire and safety?	3	2
2C.	Draw a neat sketch of the various siphonage system used in plumbing	3	5
3A.	Explain how dynamic response factor/gust factor affect the wind load design.	3	3
3B.	Explain with neat sketch field determination of Es (modulus of elasticity) by plate load test.	4	3
3C.	Explain briefly about internal pressure coefficient used in wind load design.	4	3
4A.	Explain the terms (i) Pier (ii) Curtain wall (iii) Joint in masonry structures.	3	4
4B.	Briefly explain the various seismic strengthening methods adopted in masonry structures.	4	4
4C.	Comment on the influence of re-entrant comers in building design for earthquake performance	3	4
5A.	Explain daylight factor and what are its components	4	5
5B.	Explain any four planning criteria for air conditioning systems.	3	5
5C.	Draw a neat sketch for dual pipe systems.	3	5