

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-2 EXAMINATION- APRIL -2018

M.Tech II Semester

COURSE CODE: 10M11CE215

MAX. MARKS: 25

COURSE NAME: SUSTAINABLE DESIGN AND CONSTRUCTION

COURSE CREDITS: 03

MAX. TIME: 1.5 HR

---

*Note: All questions are compulsory and carry equal marks. Carrying of mobile phone during examinations will be treated as case of unfair means.*

---

1. Discuss in detail the measures adopted for sustainable design and construction in Cambridge city with respect to the following: Urban design and building norms, Drainage system, Recycling and waste facilities. [CO1, CO2,CO5]
2. Explain the concept of TBL and describe the elements contained within along with their features and goals. [CO2,CO3,CO5,CO7]
3. What is 'Lifecycle assessment of environment'? Describe the various stages and variants of LCA methodology. [CO2, CO5]
4. Provide details for the various measures that can be adopted for energy efficiency in buildings. [CO1,CO2,CO3,CO5,CO7]
5. Explain briefly the LEED system of building rating. Describe the areas broadly covered under this system along with the adopted rating methodology. [CO4,CO5]