

Mr. Tannay

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY,
WAKNAGHAT

TEST – 2, APRIL 2019

M.tech 2nd Semester Construction Management

Course Code: 10M11CE215

Max. Marks: 25

Course Name: Sustainable Design and Construction

Max. Time: 1hr 30min.

Course Credits: 03

Note: All questions are compulsory. Marks are indicated against the questions. Carrying of mobile phone is strictly prohibited and will be treated as case of unfair means.

Q.1 What does GRIHA stand for? Explain its rating system in brief. Enlist at least 10 criteria along with the maximum points awarded along with the same, used in GRIHA rating system.

[4]

Q.2 Explain in detail any one of Indian LEED platinum rated Green Building, highlighting various silent aspects and facts about the building which makes it one of the most valuable asset of India.

[5]

Q.3 With help of neat sketch explain any 2 induced ventilation techniques to control temperature and humidity inside green buildings.

[5]

Q.4 Write a short note on following:

(a) Passive Downdraught Evaporative Cooling

(b) Earth air tunnel

(c) Brownfield redevelopment

(d) Solar transmission through various types of glass

[1.5*4 = 6]

Q.5 What do you understand by erosion of soil, explain its various types. Enumerate some measures to control erosion in a building development site.

[5]